

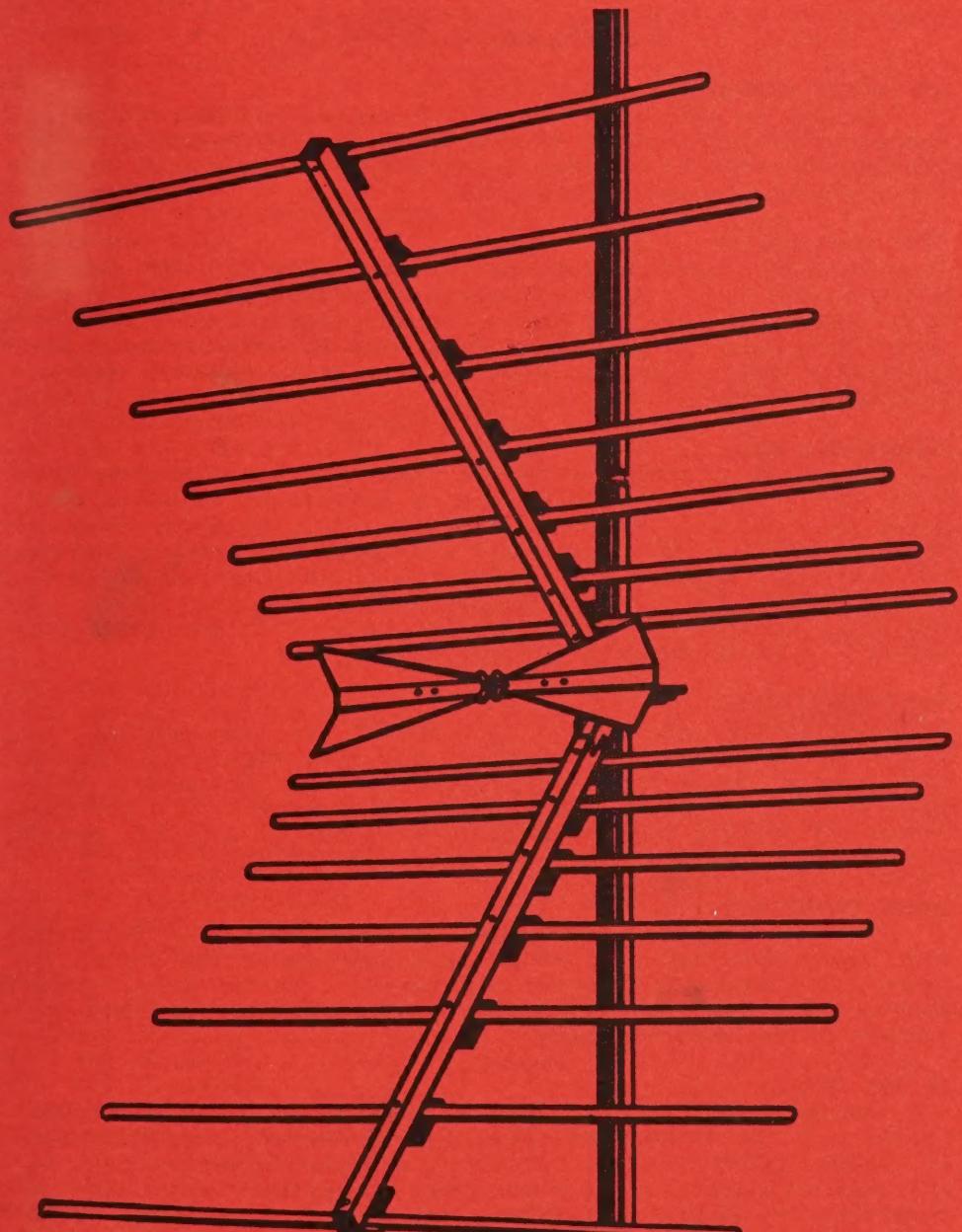
VHF-UHF DIGEST

The Official Publication of the Worldwide TV-FM DX Association

NOVEMBER 1994

IN THIS ISSUE:

BOB COOPER'S HISTORY OF UHF-TV



WORLDWIDE TV-FM DX ASSOCIATION

SERVING THE VHF-UHF DX ENTHUSIAST

THE VHF-UHF DIGEST IS THE OFFICIAL PUBLICATION OF THE WORLDWIDE TV-FM DX ASSOCIATION, DEDICATED TO THE OBSERVATION AND STUDY OF THE PROPAGATION OF LONG DISTANCE TELEVISION AND FM BROADCAST SIGNALS AT VHF AND UHF. W.T.F.D.A. IS GOVERNED BY A BOARD OF DIRECTORS, COMPOSED OF TOM BRYANT, DAVE JANOWIAK, AND BILL THOMPSON.

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FROM THE STAFF:

NEW BOARD MEMBER:

Long-time club officers Bill Thompson and Dave Janowiak announce the appointment of Tom Bryant to the W.T.F.D.A. Board of Directors. Work is currently underway to return the BoD to its' full five member complement.

1995 CONVENTION:

An announcement elsewhere in this issue of VUD spells out details of the bidding and selection process for the 1995 convention site and host. Shortly after the first of the year (and after the BoD is back to five members) the convention site selection process will be reviewed. More on this as it develops.

COLUMN EDITORS:

Thanks from everyone in the Club to Dave Nieman and Fred McCormack for their years of dedication as editors of their respective contributions to the VUD. As they take a well-deserved break (but don't stay away too long, guys) we are currently looking for volunteers to take over WESTERN TV DX and PHOTO NEWS. Contact any member of the board if you're interested. Meanwhile, thanks to Fred Nordquist for taking the reins of the TV STATISTICS report.

COMMUNICATIONS:

Re-establishment of "FROM THE STAFF" is the result of comments from several members who have expressed concern that news of happenings within the club has not been well covered. As a rule this column will appear on a monthly basis, but may be omitted occasionally due to lack of space and/or newsworthy happenings.

WHERE TO WRITE:

For the present you can get in touch with Bill Thompson and Dave Janowiak at the Buffalo address or Tom Bryant in Nashville (see TIME TUNNEL for address). In the near future each issue of the VUD will contain information on how to contact every Board Member.

IN THE WORKS:

Aside from the urgency of getting all open positions filled and '95 convention planning underway, consideration is being given to the return of an open forum (letters to the editor) column. One member has expressed interest in compiling a membership list and doing a survey. Your comments and suggestions are encouraged.

FM NEWS

OCTOBER 1994

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Many of the items listed in this column are taken from the publication:
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KEY:

&: satellite programming
 AF: new freq. allocation accepted for filing
 for a new FM license
 CC: call change/new calls assigned
 CL: city of license change granted
 CO: new xmtr co-ordinates
 CX: a CP has expired, and is cancelled
 C1,C2, etc: change in class status
 DA: directional antenna
 DE: calls deleted, license returned to FCC
 FC: station format change

GA: granted amendment to table of FM allocations
 GE: station was granted extension of a CP
 GX: granted replacement of expired CP
 MC: multiple-city legal ID
 NC: no change yet, on a reported pending grant/change.
 NO: station is not on the air
 NS: a new station granted a license
 NW: new station signs on the air
 PA: proposed amendment to change table of allocations
 PC>: a power change (increase)

PC<: a power change (decrease)
 PG>: power change granted (increase)
 PG<: power change granted (decrease)
 QC: frequency change for this station
 QG: frequency change granted
 RA: station returns to the air
 RE: station requests extension of a CP
 RX: station requests re-instatement of an expired CP
 SG: slogan change or update
 SI: station is silent
 XC: station granted a transmitter (xmtr) site change

ALABAMA

Addison: *** 105.7 PA to add class A
 Athens: W261CL 106.5 NS-250w: WHVK 93.3 TN
 Atmore: WDWG 104.1 CC (ex WGXC), FC-to country
 "The Dawg" (Mobile market)
 Bay Minette: WAVH 106.5 PC> 50 kW, 450 ft., CC (ex WFMI)
 FC to oldies (the old 96.1 format)
 Dadeville: WDVI 88.7 NC to 100 kW but RE
 Fairhope: WGXC 92.1 CC (ex WZEW), FC to rock
 Mobile: WMYC 96.1 FC to country, CC (ex WAVH)
 Mobile: WKRG 99.9 no FC, still "Coast 100" but has temporarily switched calls to WKRD
 Montgomery: WBAM 98.9 FC to country
 Mooresville: W263AF 100.5 NS-38w: WSHK 97.7 Russellville
 Northport: WLXY 100.7 PG> to 11.6 kW, 485 ft., XC
 Tuscaloosa: WVNA 100.3 FC to classic rock

ALASKA:

Anchorage: *** 107.7 PA to add class C2
 Anchorage: KMXS 103.1 CC (ex KXDZ), RA with hot AC with SG "Mix", PC> to 27 kW, -180 feet.
 Glennallen: *NS 90.5 3,210 w., 718 ft.
 Juneau: *NS 100.7 AF

ARIZONA:

Apache Jct: KVVA 107.1 NC to 25 kw but RE
 Parker: KMDX 99.3 NC to 10 kW, 941 ft. but GE
 Prescott: KGCB 90.9 NO-RE
 Sedona: KSED 107.5 NW
 Seligman: KZKE 103.3 NO-GE (3rd)

ARKANSAS:

DeWitt: KDEW 96.7 NC to 97.3 and 50 kW, RE
 Harrisburg: *** 95.9 GA to add 95.9 C3
 Helena: KFFA 103.1 PC> to 13 kW, 318 ft., C3
 N.Crossett: KWLT 102.7 NO-RX
 Yellville: KCTT 97.7 QG to 107.1

CALIFORNIA:

Antioch: KITS-4 105.3 NS-325w(v): KITS San Francisco
 Avenal: KAAK 105.7 NO-RE
 Big Bear C: KBHR 93.3 NO-GE (3rd)
 Columbia: KTDO 98.9 CC (ex KAGF)
 Copperopolis: KRVI 105.5 NO-RE
 Coming: KCEZ 100.7 PG> to 20.5 kW, 1742 ft., XC
 Ellwood: KCQR 94.5 FC to spanish // KSPE 1490
 Ford City: KZPE 102.1 NO-RX (4th)
 Garberville: KWEQ 103.7 NO-GE
 Green Acres: KRAB 106.1 NC to 106.1, but GE
 Greenfield: KSUR 99.5 CC (ex KKHI)

California:

Kerman: *** 98.3 PA to add class A
 La Quinta: KUNA 96.7 no FC, remains regional Spanish
 Los Angeles: KKLA 99.5 PC< to 10.7 kW, 2880 ft., DA
 Marysville: KSXX 99.9 CC (ex KRFD)
 Orcutt: KGDP 95.7 NO-RX
 Patterson: KZMS 97.1 NO-GE
 San Diego: KCLX 102.9 FC to 70's oldies "Beach"
 San Francisco: KDFC 102.1 CO: 37-51-3 / 122-29-51, 1046 ft.
 San Rafael: KKHI 100.7 RA with classical
 Shingle Sps: KSSJ 101.9 NC to 44 kW but RE
 Tulelake: KFLS 96.5 PC> to 20 kW, 2153 ft., class C
 Walnut Crk: KFRC 99.7 NS-186w(v): KFRC San Francisco
 Willows: KQSC 105.5 PC> to 6 kW
 Winton: KFMK 98.7 NW, regional Mexican // AM 1580
 Woodlake: KFRR 104.1 CC (ex KFCL) "Four in a Row"

COLORADO:

Boulder: KXPK 1 96.5 NS-500w: KXPK Evergreen, CO
 Delta: KKLY 95.1 FC to WW1 hot country (&) (this station serves the Grand Junction area)
 Kremmling: KRKM 106.3 PC> to 3 kW, 1050 ft., class C2
 Rifle: KZKS 105.3 RA, CD country (&) (Gnd. Junction)

CONNECTICUT:

Hartford: WZMX 93.7 FC to 70s oldies--
 New Haven: WYBC 94.3 adds Tom Joyner show
 Storrs: WHUS 91.7 PG> to 1028w(h), 4000w(v), 538 ft.

DELAWARE:

Bethany Bch: WWVW 95.9 CC (ex WKHI) still CHR, "Coast"
 Dover: WRTX 91.7 NO-GE (3rd), PG< to 580w(v), XC
 Laurel: WDNO 95.3 FC to contemp. Christian//WXZP 101.3
 Milford: WXPZ 101.3 FC to contemp. Christian (&)
 Seaford: WECY 98.3 FC to real country (&)

FLORIDA:

Baldwin: WXQL 105.7 RA with urban AC
 Cedar Key: WVN 102.7 NO-RE (2nd)
 Ft.Lauderdale: WBGG 105.9 adds Howard Stern mornings (recently switched to 70's oldies "Big")
 Gainesville: WYKS 105.5 QG to 105.3, 466 ft., XC: CO: 29-37-53 / 82-25-08
 Key West: WSKP 107.9 NO-GE (4th), 548 ft., XC CO: 24-40-39 / 81-29-30
 Naples: WRAO 94.5 CC (ex WCVU)
 Panama City: WFSW 89.1 NO-RE
 Pt.Charlotte: WEEJ 100.1 CO: 26-52-17 / 82-10-34
 Sebastian: *** 95.9 GA to add class C3
 Titusville: WPIO 89.3 NC to 6750w(h), 10 kW (v), RE
 W.Palm Bch: WIRK 107.9 CO: 26-45-23 / 80-7-55 (@ 348ft)

GEORGIA:

Dock Jct: WXMLK 105.9 PC> to 15 kW, 420 ft.
 Gordon: WALJ 107.1 CC (ex WQXM)
 Savannah: WAEV 97.3 FC to hot AC
 Trion: WATG 95.7 NO-RE (2nd)

GUAM:

Agana: *** 102.9 GA: add class C
 Agana: KULO 101.9 NO-RE (2nd)

HAWAII:

Halfmaile: KPMW 105.5 NW, ethnic (Philippines) prog.
 Kaneohe: KBLZ 104.3 PG> to 73,510 watts, 2116 feet.
 Kekana: KAUI 103.3 NO-RE (3rd)
 Lihue Kauai: *** 98.1 GA to add class C
 Paauilo: KNUQ 103.7 CC (ex KILU)
 Poipu: KSRF 95.9 NO-RE
 Volcano: KKOA 107.7 NO-RE (2nd)

IDAHO:

Blackfoot: KCVI 101.5 NW, 70's classic hits
 Wallace: KSQA 101.7 NO-CX-DE

ILLINOIS:

Carlyle: *NS 96.7 6 kW, 328 ft.
 Galatia: *** 98.9 GA to add class A
 Lawrenceville: WAKO 103.1 NC to 6 kW, 246 ft, RE
 Mt. Carmel: WRBT 94.9 FC, adds adult rock (&)- WW1
 Mt. Sterling: *NS 106.7 AF
 Ottawa: WRKX 95.3 PG> to 4,300 watts
 Seneca: WAIZ 95.7 CC (NS)
 Tuscola: WKTW 93.5 CC (ex WUBB), FC to talk

INDIANA:

Bloomfield: WBHQ 101.1 NO-RE
 Brownsburg: WQFE 101.9 FC to oldies (Indianapolis)
 Greenwood: WGGR 106.7 FC to oldies (Indianapolis)
 Howe: WQKO 91.9 NW, contemp. Christian
 Indianapolis: WNAP 93.1 FC to 70's oldies "Buzzard"
 CC (ex WKLR)

Kokomo: WZWZ 92.7 one step appl. for 92.5 class A, 6kW
 LaGrange: WTHD 105.5 NW, country (&) "Thunder"
 New Albany: *NS 94.7 3 kw, 328 ft.

IOWA:

Amana: K209BQ 89.7 NS-250w(v): KEAR 106.9 San Fran.
 Davenport: KRVR 106.5 PG> to 88 kW, 1023 ft. XC
 CO: 41-32-49 / 90-28-35
 Sac City: *NS 104.7 AF

KANSAS:

Concordia: KCVO 88.3 FC to adult contemporary
 El Dorado: KTLI 99.1 NC to 100kW but RE (3rd)
 Hays: KPRD 88.9 NW, religion
 Ingalls: *** 105.9 PA to add class A
 Lindsborg: KQNS 95.5 PC> to 15.5 kW, 417 ft.
 Manhattan: KXZB 104.7 NW, country, "B" 104.7, CC
 (ex KTDF)

KENTUCKY:

Bardstown: WOKH 96.7 CO: 37-42-01 / 85-27-22 (@ 328 ft)
 Elkhorn C: WPKE 103.1 PG> 320 watts, DA
 Horse Cave: WXPC 106.7 NW, oldies (&)
 Maysville: WFTM 95.9 CO: 38-38-35 / 83-46-47
 Smiths Grove: WBLG 107.1 C2, CO: 36-50-35 / 86-15-30
 Whitley C: WHAY 105.9 FC, adds real country (&) SMN

LOUISIANA:

Breaux Bridge: KFTF 96.5 FC to classic hits/rock
 Folsom: KGZC 104.9 NO-GE (2nd), PG> to 3.1 kW
 DA, XC to 30-79-53 / 90-04-26
 LCharles: KZWA 105.3 NW, urban
 LProvindce: KLPL 92.7 CO: 32-48-59 / 91-12-22 (154 ft)
 N.Fort Polk: KCJ 106.7 NO-GE (7th)
 Washington: KNEK 104.7 PG> to 25 kW, class C3

MAINE:

Bangor: WYOU 97.1 adds SMN Real Country (&)
 N.Windham: WVYH 106.7 NO-GE (3rd)
 Searsport: WBYA 101.7 NW, Jones soft AC (&)
 Skowhegan: WHQO 107.9 NC to 5980 w., 666ft but GE
 Westbrook: WYNZ 100.9 PC> to 25 kW, 328', DA, B1

MARYLAND:

Garysonville: WZXL 103.1 FC to alternative rock

MASSACHUSETTS:

Lawrence: WCGY 93.7 GX for 29.5 kW, 640 ft., FC to 70's
 oldies, "Eagle 93-7" slogan=

Provincetown: WOMR 91.9 PG> to 1 kW(h), 20 kW (v), 164', B1

MICHIGAN:

Detroit: WYCD 99.5 PC< to 17 kW, 787 ft, DA
 Detroit: WHYT 96.3 FC, moving towards "top 40 /
 new rock", with SG "Planet" used often=

Grand Rapids: WBYY 88.9 PG> to 4.5 kW, 194 ft, XC

Ishperming: WMQT 107.7 QC from 107.5

Mackinaw C: WFGE 94.3 FC to Jones easy list. (&)

Muskegon Hts: WMRR 101.7 PC> to 12 kW, 476 ft.

Stambaugh: W237AW 95.3 NS-50w: WRVM 102.7 Suring, Wisc.

Tawas C: *** 103.3 GA for class A

Tawas C: WHST 107.3 GA: change to 106.1-A

Tuscola: WWBN 101.7 CC (ex WKMF) "Banana"

MINNESOTA:

Atwater: KYRS 94.1 FC to oldies (&)

LaCrescent: KQEG 102.7 PC> to 3.1 kW, 863 ft, class C3

Pillager: *** 95.9 GA for class A

Redwood Fls: KLGR 97.7 NC to 60 kW, but RE (2nd)

Roseau: *** 103.5 GA for class A

Tracy: KARL 105.1 PC? to 25 kW, 522 ft, C2
 CO: 44-19-32 / 95-52-19

Willmar: KBHZ 91.9 CC (NS)

MISSISSIPPI:

Cleveland: WDTL 92.7 GA: to 92.9, class C2

Durant: *** 101.1 GA, add class A

Louisville: WLSM 107.1 PG> to 12.5 kW, 466ft, C3

Magee: WKXI 107.5 adds Tom Joyner show

Moss Point: WZBA 104.9 FC to oldies

Oxford: W267AE 101.3 NS-38w: WAFR 88.3 Tupelo, MS

Pearl: WVIV 93.9 NO-GE, XC, (dec. to 285 ft)

Sumrall: WJSJ 92.9 GA: to 106.3 class A

MISSOURI:

Cameron: KDEF 100.1 NO-GE (5th)

Cuba: *NS 90.37,040 w., 306 ft. (Missouri River
 Christian Broadcasting)

Halfway: KYOO 93.1 GA- from 93.1 A to 99.1 A

Jefferson C: *** 104.1 GA to add class A

Neosho: *** 99.7 GA to add class A

Owensville: KLZE 95.3 SI

Ozark: KZPF 92.9 GA; from class A to C2

Palmyra: KICK 97.9 PG> to 50 kW, 341 ft.

Potosi: KHCR 97.7 NO-GE

Wheeling: KAIW 105.9 CC (NS)

MONTANA:

Billings: KKBR 97.1 XC, (inc. to 400 ft)

Bozeman: *** 103.5 GA to add class C1

Kalispell: KALS 97.1 FC, also adds Skylight gospel &

NEBRASKA:

Blair: *NS 97.3 25 kW, 325 ft.

NEVADA:

Carson City: KTHX 94.7 CC (ex KZS), "X 94.7"

Elko: KLKO 93.5 QG to 93.7 C2, 4800 w, 1486', XC

Wendover: KYOU 102.3 NO-RE (5th)

NEW HAMPSHIRE:

Gorham: WXLQ 107.1 NO-GE

Walpole: WLPL 96.3 NO-RE (3rd)

NEW JERSEY:

Branchville: W297AC 105.7 NS-10w: WAWZ 99.1 Zarepath
Ocean City: WRTQ 91.3 NW, jazz // WRTI 90.1 Philadelphia

NEW MEXICO:

Albuquerque: KWQK 101.3 NO-GX (2nd), PG> to 6kW, 328', XC
Armijo: KUCU 107.1 CX (for 60 kW, 2367 ft, class C, XC
Clovis: *NS 106.5 60 kW, (h), 177 ft.
Deming: KDEM 94.3 FC to SMN Real Country (&)
Gallup: *** 101.5 GA to add class A
Grants: KAIU 92.7 50 kW, 164 ft., CC (NS)
Portales: KSEL 95.3 FC to Jones country (&)
Raton: KNJU 90.9 NO-CX-DE
Reserve: *** 100.7 PA to add class C3
Socorro: K220EL 91.9 NS-9w.: KUNM 89.9 Albuquerque

NEW YORK:

Albany: XLTR 93.9 noted on // WPGL 90.7=
Albany: XLTR 105.3 noted on // WFME 94.7 NJ
Buffalo: W287AE 105.3 NW, (WNJC 107.7) from the top of
Buffalo General Hospital (13 watts)=
Essex: WCPV 101.3 RE (but was noted on the air testing
Labor Day wknd., realeyng WHDQ 106.1 Claremont, NH)
Homer: WXHC 101.5 PC< to 1290 w., 495 ft.
Ithaca: WQNY 103.7 SG "103.7 The Wave", not much of
a format change really, maybe slightly softer classic rock=
Mt. Hope: WXHD 90.1 NO-GE (5th)
N. Creek: WXLG 89.9 NO-RX (3rd)
Pattersonville: WPGL 90.7 NO-CX-DE (however, this station
has been reported on the air with religion)
Remsen: WOFM 93.5 FC to soft jazz
Whitesboro: WOWZ 97.9 CC (NS), NW, "Wow FM"=
Williamsville: W297AB 107.3 NW (xtr: WNUC 107.7) XC;
their studio on NY-5 in Williamsville, 50 watts=

NORTH CAROLINA:

Asheboro: WKRR 92.3 FC to classic rock
Carolina Bch: WLGX 106.7 NO-GE
Clinton: WCLN 107.3 QC from 107.1, now C3, 13 kW,
328 ft, CO: 35-02-14 / 78-29-56
Eden: WNEU 94.5 FC to rock
High Point: WWWB 100.3 FC to classic hits "Fox"
Fair Bluff: WWIR 105.3 NO-CX-DE
Mt. Airy: W285DJ 104.9 NS: 10w- WBFJ 89.3 Winston-Salem
Winston-Salem: WBFJ 89.3 NW, contemp. Christian
Winston-Salem: WXRI 91.5 NO-RE (2nd)

NORTH DAKOTA:

Bismarck: KSSS 101.5 is on that freq, not 97.5 as reported
Bismarck: KCKT 97.5 FC to country "Cat Country"=
OHIO:
Byesville: WILE 97.7 NW, ad. standards(&) // AM
Cambridge: WCMJ 96.7 PC> to 2300 w., 367 ft.
Defiance: WZOM 105.9 one step appl for class A, 6000 w.
and a QG for 105.7
Delta: WBZU 106.5 NW, rock "Buzz 106.5" (Toledo)
Marysville: WAKS 105.7 PC< to 2500 w, 512 ft.

OKLAHOMA:

Clinton: KCLI 95.5 NC to 50 kW, but RE (3rd)
Elk City: KZRU 94.3 PG> to 7,850 w, 579 ft. class C3
Lahoma: KMKZ 95.7 NO-RE
Lawton: KMGZ 95.3 NC to 6 kW but RE (4th)
Nowata: KRIG 94.3 PA: change to 105.1 class C3
Okmulgee: KTHK 94.1 PA: from class C1 to C2
Pawhuska: *** 104.9 PA: delete class A alloc. here
Shawnee: KABH 95.1 NO-RE
Woodward: KWFX 93.5 CX for 100.1 class C1

OREGON:

Beaverton/Tigard: *NS 98.1 NS: xtr for KUPL 98.5 Portland
with 200 w (v)
Coos Bay: *NS 93.5 2,500 watts, 512 ft.
Eugene: K203BT 88.5 NS-10w(v): KAWZ 89.9 ID
Lincoln C: KCRF 96.7 NC to 30 kW but GE (6th), reports
that this station may be silent=
Oakridge: K281AF 104.1 NS-180w: KKNU 93.1 Springfield
Reedsport: KRBZ 99.5 FC, adds Jones AC (&)
The Dalles: *** 92.7 GA to add class C3

PENNSYLVANIA:

Bradford: WBRR 100.1 PC> to 1650 w., 525 ft.
Clarendon: WOVU 106.9 NO-GE
Grove City: WRKU 95.1 FC to country "Cat Country",
this will be getting new call letters
N.Kensington: WZPT 100.7 FC to 70s oldies=
Philadelphia: WKDU 91.7 PG> to 800w, DA
Pittston: WWSH 102.3 CC (ex WSKS)
Scranton: WEZX 106.9 NC to 800w., GE (2nd)
St. Marys: WKVE 97.5 PG< to 19.5 kW, 800 ft.
Sharpsville: WRKU 95.9 CC (ex WHTX), RA with rock, the
old 95.1 Grove City format moves up the dial
Spangler: WXVE 97.3 PC> to 1,750 w., 610 ft., XC to
40-30-27 / 78-48-14
Warminster: WRDV 89.3 PC> to 100w (h), 1000w(v), 118 ft
DA, CO: 40-12-19 / 75-6-27

PUERTO RICO:

San German: WZGX 91.7 CC (NS)

RHODE ISLAND:

Bristol: WQRI 88.3 NC to 200w but RE

SOUTH CAROLINA:

Blackville: WAAN 97.9 NO-RE
Lake City: WDFN 100.1 PC> to 3.3 kw, 433 feet
Lancaster: WRHM 107.1 PC> to 3.3 kW 436 ft.
Lexington: WLXC 98.5 PC> to 6 k@, 328ft, XC
CO: 33-53-56 / 81-13-38

Williston: WAAW 94.7 NW, SMN-oldies (&)

SOUTH DAKOTA:

Custer: KACP 105.1 NO-RE
Lowry: KKFX 106.7 CC (NS)
Sisseton: KSWS 89.3 NO-RE (2nd)
Volga: KKQQ 102.3 CX for 102.5 MHz, but RX

TENNESSEE:

Cookeville: WWOG 90.9 NO-RE (2nd)
Elizabethtown: WAEZ 99.3 CC (ex WUSJ), FC to soft AC
Florence: W225AB 92.9 NS-38w: WLLX 97.5 Lawrenceburg
Germantown: WJOI 107.5 CC (ex WAQK)
Johnson C: W214AP 90.7 NS-10w: WJSO 90.1 Pikeville, KY
Knoxville: WJXB 97.5 CC (ex WEZK), "B-97.5"
McKinnon: WJWL 101.5 FC to Jones CD Country (&)
Murfreesboro: WRMX 96.3 NC to 53 kW but GE
Smyma: WRLG 94.1 FC to modern rock all on its own
breaking off simul. with WRLT 100.1, "Thunder 94"

Woodbury: WBOZ 104.9 NW, country "Z105"=

TEXAS:

Centreville: *NS 103.1 1,900 w., 207 ft.
Dallas: KJMJ 100.3 Tom Joyner moves to this station
from competitor KKDA 104.5 "K104"
Dension: KTCY 104.9 SI
El Paso: KSET 94.7 one step appl for class C, 96.9 kW
PC> to 96.9 kW, 1191 ft, class C1, CO: 31-47-34 / 106-28-47
Gainesville: KECS 107.9 CC (ex KPXG)
Giddings: KOKE 101.7 QG to 101.5 C1, PG> to 100 kW
981 ft, XC to 29-57-0 / 97-22-13
Merkel: KCWS 102.7 FC to classic rock
Midland: KQRX 95.1 NO-RE (5th)
Perryton: K211CF 90.1 NS-176w: KJLL 99.1 Copeland, KS
Refugio: KZTX 106.3 CX for 106.1, and request for
a replacement was denied



Texas:

S.Padre Is: KJIB 92.7 NO-RE (6th)
 Tyler: KVNE 89.5 NC to 96 kW, DA, but GE
 Tyler: KDOK 92.1 PG< to 1.6 kW, 449 ft, XC

UTAH:

Midvale: KQMB 102.7 NO-GE (6th)
 St.George: KSGI 99.7 FC to adult standards
 Vernal: KLCY 105.9 CX for 7400 watts

VERMONT:

Burlington: WVPS 107.9 PG> to 50 kW, 2644 ft.

VIRGINIA:

Farmville: *** 92.9 PA to add class A
 Ivanhoe: WAHK 90.1 NO-CX-DE
 Kenbridge: WPEX 90.9 NW
 Petersburg: WPLZ 99.3 PC> to 6 kW, 328 ft, DA
 Spotsylvania: WYSK 99.3 RA with soft AC (&), PC> to 6 kW,
 328 feet, and DA, CC (ex WPLC)
 Woodbridge: WJZW 105.9 CC (ex WCXR) FC to jazz
 White Stone: WNDJ 104.9 NO-RE (3rd)

WASHINGTON:

Coffax: KRAO 102.5 NW, SMN - classic rock (&)
 Kennewick: KAIS 91.7 CC (NS)

WEST VIRGINIA:

Pt.Pleasant: WBYG 99.5 NO-GX (3rd)
 Rainelle: WRRL 95.3 PG> to 12.9 kW, class B1
 Romney: WJJB 100.1 FC to soft AC (&)

WISCONSIN:

Appleton: WAAU 91.9 NO-RE
 Milwaukee: WLUM 102.1 FC to modern rock
 Mishicot: WGBM 107.5 GE, CC (ex WEGV)
 Park Falls: WCQM 98.7 QC from 98.1, now C2, 50 kW, 233'
 Stevens Pt: WMGU 104.9 CX for 25 kW and new
 CL: Marathon but RE
 Three Lakes: WHTD 93.7 NW, country
 Whitewater: WISQ 106.5 NO-RE



FLORIDA STATE UNIVERSITY SEMINOLES FOOTBALL 1994 fm affiliate list (courtesy Matt Sittel)

WJXR	92.1	FL	Macclenny
WMFQ	92.9	FL	Ocala
WBGF	93.5	FL	Belle Glade
WBNF	94.1	FL	Marianna
WTNT	94.9	FL	Tallahassee (flagship)
WBSB	96.1	FL	Brooksville
WCAA	97.7	GA	Ocilla
WQHL	98.1	FL	Live Oak
WLXC	98.5	SC	Lexington
WDAL	98.5	SC	Pawleys Island
WYOO	101.3	FL	Springfield
WYDA	101.7	FL	Graceville
WLKQ	102.3	GA	Buford
WESP	102.5	AL	Dothan
WYOC	104.9	FL	High Springs
WNSP	105.5	AL	Bay Minette
WNFK	105.5	FL	Perry
WGMK	106.3	GA	Donalsonville
WZZS	106.9	FL	Zolfo Springs

WYOMING:

Laramie: KKNG 104.5 NO-GE (2nd)

CANADA:**ONTARIO:**

Ajax: CHOO 95.9 NW, heard on testing 10/12/94=

Barnie: CKBB 950 QG to 101.1=

Bruce Peninsula: *NS 90.7 exact location unknown, this is a Weather Radio Canada station on the FM dial! Power should be around 50 watts, noted on the air already!=

Collingwood: CKCB 1400 QC to 95.1=

Cornwall: CHOD? 92.1 French station noted here, with SG "Chaud-FM" by both me and Saul, the calls of this station either CHOD or CHOB, 2 to 10 kw range I would say=

North Bay: CHUR 840 QG reported to 100.5, with a power around 10,000 watts=

Ottawa: CKDJ 96.9 NW, only 5 watts or so, originates from and prog. by Algonquin College

Pembroke: CHVR 96.7 these three AM stations (1400 Renfrew, 1350 Pembroke, 1490 Amprior are expected to move to 96.7, displacing CBC's CBCD, which will move freq too=

PRINCE EDWARD ISLAND:

Charlottetown: *NS 104.7 new CBC station approved=

SASKATCHEWAN:

Regina: CHMX 92.1 FC to country

**On the radio dial**

South Carolina				
Andrews	WGTN (FM)	100.9	adult contemporary	
Buckport	WGTR (FM)	107.9	country	
Charleston	WEZL (FM)	103.5	country	
Charleston	WSCI (FM)	99.3	NPR (fine arts)	
Charleston	WSXJ (FM)	95.1	CNR	
Charleston	WXTG (FM)	98.9	adult contemporary	
Conway	WHMC (FM)	90.1	NPR (Fine arts)	
Conway	WJXY (AM)	1050	Southern gospel (Stereo)	
Conway	WJXY (FM)	93.9	country	
Conway	WJXY (FM)	100	gospel	
Conway	WYAY (FM)	104.1	adult contemporary	
Florence	WJXM (AM)	97.0	news/talk	
Florence	WJNX (FM)	103.3	CNR	
Georgetown	WGTN (AM)	1400	adult contemporary	
Georgetown	WSYN (FM)	106.5	oldies	
Georgetown	WSCA (FM)	93.7	classic rock	
Georgetown	WLWC (AM)	1470	urban/gospel (daytime)	
Georgetown	WWXM (FM)	97.7	adult contemporary	
Hanahan	WAIF (FM)	98.1	album rock	
Hemingway	WLGI (FM)	90.9	diverse	
Kingsgate	WPKT (FM)	98.3	urban	
Lake City	WFNP (FM)	100.1	oldies	
Lake City	WLFC (AM)	1240	country	
Lake City	WVCO (FM)	94.9	country	
Merton	WPSY (FM)	100.5	country	
Mullins	WJAY (AM)	1290	country; talk	
Mullins	WCGQ (FM)	107.1	urban; religious	
Murrells Inlet	WRNN (FM)	94.5	news/talk	
Myrtle Beach	WJYR (FM)	92.1	easy listening	
Myrtle Beach	WTCO (AM)	1530	rock (daytime)	
Myrtle Beach	WTCO (FM)	101.7	rock	
N. Myrtle Beach	WGSH (AM)	900	adult contemporary	
N. Myrtle Beach	WNMB (FM)	105.9	adult contemporary	
Pawleys Island	WDAL (FM)	98.5	adult contemp./sports	
St. George	WUBB (FM)	107.5	country	
Sunrise Beach	WYAK (AM)	1270	country	
Sunrise Beach	WYAK (FM)	103.1	country	
Myrtle Beach				
North Carolina				
Chadbourn	WVOE (AM)	1580	urban/gospel (daytime)	
Fair Bluff	WJHB (AM)	1440	country (daytime)	
Fayetteville	WZFX (FM)	99.1	urban	
Jacksonville	WKOO (FM)	98.7	oldies	
Fayetteville	WKLW (FM)	95.7	country	
Shallotte	WCBA (FM)	106.3	oldies	
Shallotte	WTRU (FM)	103.7	soft adult favorites	
Stevens	WVCB (AM)	1410	religious	
Southport	WSEB (AM)	107.5	classic rock	
Tabor City	WTAB (AM)	1370	country	
Tabor City	WYNA (FM)	104.9	country	
Whitewright	WEBC (AM)	1220	adult contemporary	
Whitewright	WTXY (AM)	1540	goodtime oldies	
Wilmington	WAAY (AM)	980	news/talk	
Wilmington	WGNI (FM)	102.7	adult contemporary	
Wilmington	WHQR (FM)	91.3	NPR	
Wilmington	WWDO (FM)	101.3	country	
Wilmington	WMXN (FM)	97.3	urban contemporary	

Myrtle Beach (SC) Sun, via Mike Lazaro

First off, thanks to these people who have helped to contribute to this column....Matt Sittel, Holly Sittel, Doug Smith, Tom Bryant, Debra Oliver, Tim Noonan, George Greene, Saul Chemos, Mike Reid, Mike Laroque, and Wayne Plunkett (these four helping out was the Canadian info), Scott Fybush, Kurt Richardson, Bill Hale, Gary Siegel, Frank Aden, John Johnson, Bob Smolarek, Mike Hawk, Mike Lazaro, and Paul Mount. Thanks also of course to M Street Journal. Their 1995 M Street Directory will be out soon, watch for more information on ordering that, or contact them at the address at this column's header. Thanks also to Matt Sittel, Tim Noonan, Mike Lazaro, and Richard Contone for sending in logos!

••First item this month comes from the beautiful state of Colorado, and an item on a tower vandalism. Not sure who sent this article, but a "Mountain NewsNet" business card, based in Littleton, CO, is included. Whoever it was-thank you! Enclosed was an article from the *Denver Post*, and a media report detailing the vandalism during the early morning hours of October 3rd. This incident involved the tower of KWMX-1600, which, at that time, was simulcasting KWMX 107.5' "Mix 107.5" uptempo AC format (although I believe the station is planning or already has changed format). It is unclear if KWMX-FM's towers are at the same site, although they were not affected by the incident. The tower has three sets of guy wires, with four wires per set. Two guy wires from one of the sets were cut, causing the tower to collapse. "The 187 foot tower had been designed to buckle in several places rather than fall straight over", said Lynn Kimbrough of the Lakewood police. The damage to the tower, in addition to damage to a fence, totalled about \$50,000, although luckily no one was hurt. Tire tracks were found leaving the scene, but no arrests were made.

••Saul Chemos sends in an item from the *Orillia Packet +Times* regarding the sign on of a new station serving the Montréal, PQ market. "Radio Ville-Marie, an ecumenical radio station, has announced plans to start broadcasting in early autumn 1994." The station is supported by several denominations, and is expected to play a wide variety of religious music, from Gregorian changes, to gospel, and from orthodox vespers to Tibetan Buddhist chants.

••Debra Oliver sends in an item from the September 13, 1994 *Pensacola News-Journal*/regarding a format change in that market. WGCX 104.1 (Atmore, AL) was sold, from Wescom of Alabama, to Capitol Broadcasting in Mobile. The station flipped to country music, WDWG, "The Dawg", after the article. According to M Street, this is the TENTH country station to serve Mobile/Pensacola market! To fill the void that WGCX left, WZEW 92.1 Fairhope, Ala. picked up the WGCX calls, and most of the on-air staff from 104.1, and the album rock format. "It's the same format, the same people and the same program that WGCX had before, except now it's on 92.1", said WZEW-FM owner George O'Rear. The problem for former 104.1 listeners in the Pensacola area is that 92.1's signal, 25 kw, compared to 104.1's 100 kw, does not penetrate into the Florida panhandle as well. O'Rear commented on this: "There are still some good rock stations in the Pensacola market" "TK (WTKX-FM 101.5) does a good job serving the market." WTKX, obviously, is welcoming the change. Thanks for the article! This has seemingly set off a chain reaction of changes in Mobile, as since this, 96.1 WAVH has changed to country and WMYC. 106.5 WFMI Bay Minette picked up the WAVH calls and oldies format. See this month's "Alabama" section for more information on this.

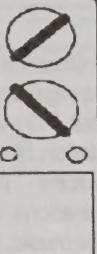
73s, Greg

New! E-Skip Maps for channels 2 through 6 Free! fourth version revised in July 1994

Please send a SASE with 52 cents postage to:
E-Skip Maps, 154 Old Post Road North, Croton-on-Hudson, NY 10520

TV News

Doug Smith
1385 Old Clarksville Pike
Pleasant View, TN 37146-8098
(615) 746-5205
Internet:
72777.3143@compuserve.com



Abbreviations used in this column:
ERP= Effective Radiated Power in
kW

HAAT=Height Above Avg. Terrain

nc= no change

TL= Tower Location

CP= Construction Permit

Pr= Province (of Canada)

*= Non-commercial

CRTC=Canadian Radio-Television
Commission

DBS= Direct Broadcast Sat.

SS:= Spanish language

LPRT=Low Power Relay Transmitter
(Canada)

TBD= To Be Determined

NEW STATIONS APPLIED FOR

Ch	St	City; applicant
32	OR	Salem; Dove Broadcasting (1189kW/370m; TL TBD)
16	TX	Lubbock; Prime Time Christian Bctg. (169.4kW/87m; TL 33°33'12"N, 101°49'13"W Magnolia Ave. & 46th St.)

APPLICATIONS TO CHANGE CONSTRUCTION PERMITS

St	Ch	ERP	HAAT	Call	City
FL	53	1343	282	WGFL	High Springs
					(new TL: 29°37'48"N, 82°34'24"W 3.7km SE of Newberry was 1493kW/262m)

NC 50 nc 599 WACN Raleigh
(was 449m. Note calls.)

APPLICATIONS TO CHANGE EXISTING STATIONS

St	Ch	ERP	HAAT	Call	City
AL	44	1698	303	WNAL	Gadsden
					(was 2750kW/293m)
CA	42	1820	1087	KESQ	Palm Springs

(was 316kW/192m; new TL:Pine Mtn.)

CA 57 4575 530 KSTV Ventura
(was 1120kW/254m;
new TL: 34°19'51"N, 119°01'22"W
South Mtn., 5km. SW of Santa
Paula, about 15km WNW of old site)

FL 23 4470 297 WLTV Miami

(new TL: 25°58'07"N, 80°13'20"W
which is in the Miami antenna farm
but doesn't correspond to any ex-
isting towers. They were on the
WFBT-2 tower with 2000kW/308m.)

HI 13 30.9 -180 KHVO Hilo

(was 4.68kW/-185m)

HI 11 30.9 -180 KHAM Hilo

(was 2.09kW/-188m. Same TL as
KHVO-13)

NZ 17 1877 187 KTVG Grand Island

(new TL: 40°43'43"N, 98°34'13"W
5km N of Prosser, about 15km SW of
old site. Was 217.3kW/86m.)

OH 23 5000 nc WAKC Akron

(was 1290kW)

WY 20 58.9 582 KFNB Casper

(was 1550kW/533m)

NEW STATIONS ON THE AIR

Fort Collins, CO: KFCT-22-

5000kW/247m

TL 40°36'37"N, 105°13'00"W
somewhere in the Roosevelt National
Forest west of Fort Collins.

Granted an operating license
on September 1 as a satellite
of Fox affiliate KDVR-31.

Bradenton, FL: WFCT-26Z

5000kW/?

TL 27°50'32"N, 82°15'46"W
or the WFLA-8 tower near Riverview.
(HAAT unknown as I list seven ap-
plicants, none of which appear to
be religious, but all list 5000kW
and the same coordinates. I don't
know which one—and thus what HAAT—
was granted the license.)

Seen by John Combs in early
October with CTN religious
programming, parallel to
WHBR-33 and WSWS-66.

Duluth, MN: KNLD-21+

955kW/180m

TL 46°47'41"N, 92°07'05"W
in the Duluth antenna farm— previ-
ous indications were that they'd be
on the KBJR-6 tower but the coordi-
nates don't quite match up.

Applied for an operating
license in late September,
under the calls KRBR. Cur-
rently independent but ex-
pected to join Fox early next
year.

Corning, NY: WYDC-48+

136kW/129m

TL 42°02'29"N, 77°15'18"W
Hamilton Rd., 6km E of Borden
Applied for an operating
license in late September.

New Stations On The Air, Contd.

Medford, OR: KMVU-26+

28.5kW/411m

TL 42°17'54"N, 122°44'59"W

Baldy Hill, 11km ESE

Applied for an operating license in late September; also noted on air by Randy Miltier, sometimes with Fox & other times with KOBI-5 (CBS)!

Austin, TX: KNVA-54Z

3434kW/267m

TL 30°19'20"N, 97°48'03"W

on Trail of the Madrones Rd., 8km NW, with other Austin TV's

Applied for an operating license in late September. Note also the ERP change (from 4370kW) and callsign change (from KCFP) since the CP was issued. I suspect this is a Spanish-language station.

CALL-LETTER CHANGES

<u>City, State</u>	<u>was:</u>	<u>now:</u>
Bradenton, FL	new-66	WFCT
Minneapolis, MN	KITN-29	WFTC-TV
Raleigh, NC	new-50	WACN
Albuquerque, NM	KBQE-50	KKIK-TV
Austin, TX	KCFP-54	KNVA
Manassas, VA	WTKK-66	WVVI

OTHER STUFF

I've found a new & more accurate source for FCC information. I hope it'll result in a more accurate column, though it may also result in a bit of confusion, at least on my part, for a month or two until I sort everything out. It also includes LPTV information, so I should be able to better deal with questions about these stations.

I don't know why TV News didn't appear in the September VUD. It was mailed in time but may have fallen behind a counter at the Pleasant View or Buffalo Post Offices... The TV News that appeared in the October VUD was, in fact, the one intended for publication in October. (one member asked in electronic mail whether it was the October or September column)

WLTV-23's power increase application calls for 4470kW horizontal, but only 1000kW vertical. If granted, it'd make WLTV the only TV station I know of with differing

horizontal and vertical ERPs. A few dozen FM stations do have differing H and V powers, (see WUPS 98.5 on page 186 of *FMAAtlas 15* for an example) usually to avoid overload interference to TVs tuned to channel 6.

The new-station application in Salem, Oregon is mutually exclusive with the renewal of KEBN-32. Indeed, before presstime, KEBN's renewal has been granted & Dove's application dismissed. I mention this mostly for completeness.

Prime Time Christian, applicants for the new channel 16 in Lubbock, owns KRPV-27 Roswell, New Mexico. KRPV is a TBN affiliate; one should expect the same from the Lubbock station if approved.

Note the WVVI call change for channel 66 outside Washington, and the previous Houston-area change to KVVV. One should expect other ValueVision-owned stations to make similar call changes. I'm surprised WAKC-23 Akron hasn't already done so.

The Kansas City/San Francisco football game on September 11 on Fox got a 39 rating and 74 share on KTVU-2 San Francisco. This means nearly three-fourths of the TVs turned on in San Francisco at the time were tuned to channel 2. (and there are over 15 over-the-air stations in the Bay Area, not to mention cable) Further, of all TVs sold in the area- whether they were turned on or not- 39% were watching the game.

Early results from the digital HDTV field tests in Charlotte, NC are in. Tests were conducted on VHF channel 6 and a UHF channel which I've since forgotten. (48?) Bit-error rates capable of delivering acceptable HDTV pictures were found at 83% of the tested locations during channel 6 broadcasts, and at 92% of the UHF sites. Only 40% of sites provided acceptable NTSC analog pictures on channel 6, and only 76% on UHF.

The surprisingly low proportion of sites providing acceptable NTSC reception on channel 6 is partially explained by the use of only 10kW ERP for the tests. (as opposed to the 100kW normally allowed to channel 6 stations) The task force also blamed overload interference from non-commercial FM stations,

Other Stuff, contd.

though the FM Atlas only shows four such FMs below 90MHz, with only one (on 89.9MHz) running more than 20kW ERP..

Commissioner James Quello has suggested major changes to the multiple-ownership rules for TV. Speaking in Ireland (of all places!), he suggested removing all limits on the number of stations that could be owned by a single firm. Quello suggested only limiting one firm to stations reaching 30% or 35% of the population. His Irish speech didn't say anything about allowing one firm to own more than one TV station in the same city, but Quello aides have said he supports the idea of multiple ownership in the same city.

SPECIAL REPORT: THE FOX SURPRISE!

Oops... Last month, instead of underlining changes that had already happened, I boldfaced them. I suspect everyone knows what I meant!

The big news this month comes from Detroit & Atlanta, where CBS has solved their need for affiliates in a rather surprising way. On September 24, CBS announced they'd purchased UHF stations WGPR-62 Detroit and WVEU-69 Atlanta. Both stations are low-rated independents, running mostly ethnic and religious programming. The stations cost CBS \$24million and \$22million respectively. By comparison, reports in Broadcasting indicated Atlanta Fox affiliate WATL-36 wanted \$180million; a VHF station would have probably cost CBS about \$400million.

Milwaukee appears to be the largest unresolved market, with WITI-6 going Fox on November 27. CBS has yet to sign an affiliate there. The city's most powerful UHFs, current Fox affiliate WCGV-24 and its LMA partner, WTVT-18, seem disinterested.

CBS offered \$10million to purchase religious WVCY-30, whose owner, Vic Eliason, refused to sell. He told CBS the offer was "unreasonably low", and further that "...To sell Channel 30 to CBS would be an act of consummate irresponsibility and a betrayal of trust for all our faithful supporters who believe in Christian family values." John Lentz tells me Eliason made

similar comments on the air, on a talk show on co-owned WVCY-FM. Further, Eliason told his listeners CBS had made a bid to affiliate LPTV station WO6BY! (which would be a serious mistake; only sync bars can be seen at my parents' house in extreme eastern Waukesha County, and they're in a good location. Most Waukesha Co. viewers would see WOOD-8 Grand Rapids, if anything! UHF LPTVs W46AR or W65BT would be a much better bet, they put a considerably better signal into Waukesha Co., especially if paired with Waukesha LPTV W43AV.)

This leaves CBS two choices, independent UHFs WJJA-49 and WDJT-58. Neither has much of a signal. I suspect they'll land on WDJT.

Ratings figures are now in for Kansas City, the second market to see a network swap, with NBC and Fox swapping WDAF-4 and KSHB-41. The Kansas City numbers are almost as confused as the Kansas City viewers... NBC programs seem to have lost considerable ground, with the *Tonight Show* falling from a 12% share on its last Monday on WDAF to a 9% on its first on KSHB. *Fresh Prince* went from 15% on channel 4 to 9% on channel 41. On the other hand, *Dateline NBC*, while dropping from a 22% share on WDAF to 18% on KSHE, still came in first place in its time slot.

Further confusing the Kansas City situation is WDAF's refusal of the *Fox Children's Network* cartoon block. These programs have ended up on independent KSMO-62, a situation expected to repeat itself in other New World markets, where former Big 3 affiliates will balk at airing cartoons on weekdays. As a result of airing the Fox cartoons, KSMO's numbers with youngsters have improved considerably. For example, *Bonkers*, a syndicated program from Disney, improved from a 4% share in August to 10% two weeks later.

WDAF reports receiving 2,500 telephone inquiries about the network swap on the first day. This declined to 750 on the second day and about 250 on the third, indicating the station's \$250,000 investment in radio & newspaper ads paid off...

Capitol Cities-ABC is making a Fox-like investment in Young

The Fox Surprise, contd.

Broadcasting. Young's two existing ABC affiliates (WKRN-2 Nashville and WTEN-10 Albany), and three affiliates it's buying from Nationwide Communications (WRIC-8 Petersburg/Richmond, WATE-6 Knoxville, and WBAY-2 Green Bay) are expected to sign 10-year ABC contracts.

Cap Cities/ABC has also joined with Granite Broadcasting to buy WJRT-12 Flint and WTVG-13 Toledo. The first purchase will keep ABC on VHF in the market, and force NBC to choose between UHFs WSMH-66 (currently Fox) and WEYI-25. (the former CBS affiliate) In Toledo, NBC will be driven to UHF as well; WTVG was the NBC affiliate. NBC's choices in Toledo are WNWO-24(ABC) and WUPW-36(Fox).

As expected, CBS has signed with KBVO-42 Austin. KBVO had been the only available full-power station in Austin until KNVA-54 signed on, but I suspect KNVA is a Spanish-language station. Austin is the only market where Fox is on VHF and all other nets on UHF!

Fox has found another group to work with. They're investing \$20million in Blackstar Communications, current owners of three Home Shopping affiliates. Blackstar intends to purchase 11 VHF stations in markets 50-100 & affiliate them with Fox. Remaining money is to come from HSN and other investors.

If things go as planned, expect another round of affiliation upsets... The first stations rumored to be under consideration are the KSN stations in Kansas: KSNW-3 Wichita, KSNT-27 Topeka, KSNG-11 Garden City, KSNC-2 Great Bend, and KSNK-8 McCook, Nebraska. Such a move would certainly extend Fox's range into an area not currently served (Wichita is the only city among these with a Fox affiliate), but it'd also leave NBC scrambling for coverage!

In the second legal challenge to a network swap, NBC is challenging SF Broadcasting's purchase of WLUK-11 Green Bay. NBC says the purchase would result in both Fox and Savoy violating multiple-ownership limits. SF claims they're an independent company, not subject to control by either firm, though Fox provided 58% of the money & Savoy 41%. SF also notes NBC has substantial minority investment in WKYC-3 Cleveland and WAPA-4 San Juan, neither of which is

counted against NBC in the ownership limits.

One firm forgotten in the network-swap wars is United Video of Tulsa. The firm was responsible for delivering the signals of independent KTVT-11 Dallas to 500,000 cable subscribers in Texas and neighboring states. With KTVT becoming a CBS affiliate, FCC network duplication rules will prevent distant cable systems from carrying the station. United Video has yet to decide what to do with the transponder time released.

United/Paramount expects to launch their new network on Jan. 16, 1995. They'll start with two hours of programming each on Monday and Tuesday nights, anchored by *Star Trek: Voyager*. Other programs include comedies, drama, and a western. As of October 10, a total of 72 primary and secondary affiliates are claimed, with coverage of 64% of U.S. households.

Updates to last month's table:

WCAX-3	Burlington:	CBS =>CBS/Fox
KSVI-6	Billings:	ABC =>ABC/Fox
KFNR-11	Rawlins:	ABC =>ABC/Fox
KODE-12	Joplin:	ABC =>ABC/Fox
KTXS-12	Abilene:	ABC =>ABC/Fox
WWTI-50	Watertown:	ABC =>ABC/Fox
WGPR-62	Detroit:	ind => CBS
WVEU-69	Atlanta:	ind => CBS

FORUM

Keith Smith, St. Ann MO:

Keith leads with an interesting question: with the ongoing talk about Quebec seceding from Canada, what effect would secession have on CBC English and CTV broadcasts in that province? I rather doubt that will be discussed unless & until Quebec actually decides to secede. My best guess is the province would continue to provide an English-language service for the considerable minority of Quebecers who speak English. The service may not be provided by the CBC, but I rather suspect that's where it'll get most of its programming. The private English-language service, currently CTV-affiliated CFCF-12, might be more seriously affected if any independent Quebec government chooses to prohibit CFCF from

Forum, contd.

affiliating with a network outside Quebec. I think it'll continue to operate as a English-language station though. Indeed, I rather doubt any Quebec government would mess with CFCF's programming.

KODE-12 is mentioned by Keith as another station with a secondary Fox affiliation. He also wonders whether KODE will reach Fayetteville, Arkansas, another city without a full-power Fox affiliate. I don't think Fox cares, as they do have two LPTVs serving northwest Arkansas, K46BZ Ft. Smith and K58DE Bentonville. They use the "non-ID" KPBI-TV. Keith asks whether KSBN-57 is on; I know of no such station.

Ernie Wesolowski, Omaha NE:

Ernie called just before presstime to let me know TBN has reached the Omaha market. They've appeared on a LPTV on channel 53 (I have no record) somewhere to the west of Ernie's location.

He also passed along information about a new full-power station planned there. An article from the Omaha paper says Gary Cocola of Fresno, California plans to put KPQC-15 on the air on April 6, 1995. The station will be LMA'd to Fox affiliate KPTM-42, and will be an affiliate of the WB network. The article says KPQC will broadcast from KPTM's tower about 20 miles southwest of Omaha. Fred McCormack says KPQC's construction permit supposedly expired in June 1992, though it appears petitions for reconsideration are routinely filed & granted!

Fred McCormack, St. Paul MN:

Fred noted (and other reports confirmed) that Rupert Murdoch was in the Twin Cities in late September to meet with US Satellite Broadcasting president (and maybe not coincidentally, son of KSTP-5's owner) Stanley E. Hubbard. Theoretically, the reason for Murdoch's visit was to get Fox on USSB's satellite. But...

There's considerable speculation Murdoch would like KSTP to take a Fox affiliation. Such a move would also include KSTP satellites KSAX-42 and KRWF-43, and fill a major gap in Fox coverage.

It would also cause problems for current Fox affiliate WFTC-29.

This station was signing KITN until the day of Murdoch's visit, when the change became official. The WFTC calls stand for "Fox Twin Cities", something that will rapidly become meaningless if Fox moves to channel 5!

WFTC GM Rip Riordan says his station's Fox contract only allows Fox to move to another station if Fox buys that station- though the article doesn't say how long his contract runs; Fox might be able to stay put for a year & then move..

Minneapolis is a five-VHF market. Currently, the independent, KMSP-9, is slated to join the Paramount Network early next year, and I believe they're owned by Paramount. Still, they may not be able to resist the lure of a Big 3 affiliation. Then again, they might...

John Combs, Orlando FL:

The move of CBS from WTWT to WTSP, and of ABC from WTSP to WFTS, has been happening piecemeal in the Tampa market. John says WTSP- which is still a ABC affiliate for a few more weeks- has begun airing "CBS This Morning"; WTWT had been airing local news & preempting CBS. AEC's "Good Morning America" has landed on WFTS-28, airing on a one-hour delay because of some kind of contractual obligations, between 6-10am Eastern time.

DX ETC:

A decent opening into central Alabama and Georgia in mid-September.. another one just at my deadline, which I missed by being on vacation in East Tennessee...

The Database is not vaporware... I'm currently working on the cross-reference, after having been screwed up by a computer glitch: a software bug irreversably erased two weeks worth of work in less than a second!

Hope everyone else is having a great tropo season!

73 Doug

EASTERN TV-DX

Stephen West
26 Dougherty Blvd. G-8
Glen Mills, PA 19342-1140

(610) 358-2648

November 1994

Deadline: 5th

There has been some tropo to report, along with reports of summer DX. Check out the report by Gary Seigel with double hop Es!

Robert Seybold, 76 E. 6th Street, Dunkirk, New York

"On August 9th I noticed a major opening at about 8pm EDT, which continued for several days. On the 9th I received; WICD-15, WICS-20, WAND-17; Peoria on 19, 25 & 31; Chicago 26, 32 & 38; Rockford on 17, 23 & 39. Normally good Michigan signals were poor. Indiana was in strong. Marion 23 and Oklahoma 14 were in with St. Louis 30.

The next day southern Ohio had super signals with WWAT-53. Dayton, Columbus and 14, 18, 20, 42 & 44 made it through. Nearly all of Kentucky was in, with channels 15, 18, 21, 22, 27, 32, 35, 36, 41, 52, 53, 54, 56, 57 and the new 58. Alabama was on 15, 21, 31, 42, 48 & 60 (Gadson). Mississippi 14 and Tennessee 19, 22, 30, 39, 43 & 61 were logged. Rome, GA on 14. WMSY-15 VA, W48BD, W30AP (Corbin) WPMC-54 and WTJP-60 were in.

On the 11th it was mostly Scranton, York and eastern PA signals received in the morning.

August 12th AM brought Altoona 23 & 47, Roanoke 38, WETA-26 DC, and Hagerstown 31.

August 13th Dave Nieman and I had strong skip in the evening.

August 15th there was some Baltimore, DC, York and Scranton signal in the morning.

August 16th in the evening was Columbus and Cincinnati signals.

August 16th to the 23rd brought some DX from Ohio and Indiana with various signal strengths.

August 24th brought early evening signals from Toledo, Detroit, Ontario and later (about 2300) CT UHF stations on 20, 26, 30 & 61. All but 26 were strong. Long Island 67, VT 22 & 33, MA 40 & 46. 51 was relaying Adams 19? WPHL-17 PA, NJ 52, 53 & 68, WETA-26 DC, WHP-21 PA and other Eastern PA stations were in good.

August 25th had WETA-26 DC at 0800. Evening brought New London, CT on 26, LI 67, and NJ-68.

August 26th in the evening had Detroit strong with 26 repeating 48. Grand Rapids 17 and WETA-26 DC were in also."

(Your report arrived after last months deadline even though it was postmarked Aug. 30th. This has happened to a few other DXers over the months. U.S. Snail? sw)

Leslie Wood, 1463 Tadmor St., N. Merrick, LI, NY 11566

Equipment: Colortrak TV with a Channel Master ant. on CM rotor.

September 1994

9 tr 0845 WNJS-23 NJ
17 tr 0845 WLNE-6 RI
21 tr 2300 WBOC-16 MD
2400 WYBE-35 PA s/off
22 tr 0055 WMPT-22 MD s/off

September 1994

22 tr 0100 WHYY-12 PA
WLVT-39 PA
27 tr 2400 WYBE-35 PA
28 tr 0300 WBOC-16 MD
0105 WHYY-12 PA

Comments: I am a new member, but have been DXing for years. I collect veries and tape station ID's but I don't have many QSLs. Very few stations reply to my letters of reception. (Welcome to Eastern TV DX! sw)

GREG CONIGLIO - 5100 GLENWOOD DR - WILLIAMSVILLE, NEW YORK 14221

Equipment: Sony 19" TV with Teknika TVC-22 tuner, Jerrald 10 element VHF antenna, about 28' AGL on roof, 4-bay bowtie amplified with 20db CM UHF only amp at about 32' AGL, CAC-11/RG6 coax and Archer rotor.

JULY 1994 DX

25 Es	1930	CBHT	3	NS	756
	2000	CJAP	3	NF	1234
<u>AUGUST 1994 DX</u>					
3 Tr	1050	WOOD	8	MI	346
	1051	<u>WZZM</u>	13	MI	365
10 Tr	1830	<u>WSWP</u>	9	WV	371
	2100	<u>WVAH</u>	11	WV	358
		<u>WCBS</u>	8	WV	358
10 Es	2130	KDTN	2	TX	1223
10 Tr	2130	WYMT	57	KY	T
		WKMA	35	KY	T
	2300	WDTV	5	WV	T
	2330	<u>WHIZ</u>	18	OH	271
		WKYQ	36	KY	T
15 Es	1930	KGWN	5	WY	1350
	2000	<u>KRMA</u>	6	CO	1388
19 Es	0800	MUF 3 (QTH: Akron, OH)			
	1200	MUF 99.5 (OH/PA line)			
	2000	MUF 105.9 (back home)			

SEPTMBER 1994 DX

11 Es	1700	MUF	6
	1930	KTBS	3
12 Tr	0800	CKCO4	11
		(snowfree over CHCH)	
	0800	CICA13	13
21 Tr	0830	Detroit.	N. Ohio U's exc.
	0830	WINM	63
	0845	WEHS	60
	0850	WJYS	62
22 Tr	0745	Scranton, Elmira	good.
		tentative: WUSA-9 DC, WGPT-36 MD	
		ch 5, 24, 46 Northern WV.	
	0900	Pittsburgh	11-13-22-40-53
		Youngstown	U's v.good
		& Hull 40, Montreal 35 CCI	

TV 62



It was surprising how long this great e-skip season lingered into August, and even September (only the 2nd Es in that month for me ever, and the other time was Sept. 1st at 12:05am!) This means further solidification of 1994 as my best skip season of all time. The late season Colorado/Wyoming opening, which also reached to 107.5 Mhz, was a special treat. The tropo season has also showed some signs of life, although I missed the morning of August 10th, which I hear was excellent. The evening was quite interesting, as a WV opening here is fairly rare. In other news around here, WJW-8 Cleveland is now Fox, and WOIO-19 has become the CBS affiliate there. It now has been reported that CBS, who was looking for an affiliate in Detroit after losing WJBK-2, has signed onto WGPR-62. On the morning of Sept. 21st, I noted WGPR with CBS Morning News and promos for CBS shows. But Fox programming was still on WKBD-50 (to be Paramount I believe). 62 has run the CBS morning programming in the past, due to ch2 not carrying it, if I am not mistaken. Let's hope for some great autumn/winter tropos! 73-Greg

William R. Hepburn 35 Lockwood Rd. Brampton ON L6Y 4T7 CANADA

Rcvr: Panasonic PC-29XF40R TV, JVC HR-D630U VCR & Icom IC-R100 Rcvr
Ant: attic VHF dipoles & 2nd floor UHF 4-bay

Distances in miles. Tropo relogs under 311 sm (500 km) not listed.

<u>AUGUST 1994 (EDT)</u>		10 ES	2159	KETS-2	AR	919	11 ES	1807	MUF 4	
01	TR	0704	WANE-15	IN	328		2159	KBTRX-3	TX	1269
04	ES	1329	<u>MUF 2</u>			TR	2257	WPTD-16	OH	357
05	ES	1857	KSNC-2	KS	1051		2330	<u>WTIU-30</u>	IN	468
		1859	<u>MUF 4</u>					Bloomington		
		1917	KSNTW-3	KS	1011		2331	WLKY-32	(IN)	483
10	ES	1957	KSNTW-3	KS	1011	11 TR	0002	WOUB-20	OH	325
			(CKVR off)				0004	WCET-48	OH	T
		1958	KACV-2	TX	1303		0013	WKOI-43	(IN)	381
		1959	KAMR-4	TX	1305		0024	WCFC-38	IL	T
		2005	<u>MUF 6</u>				0031	WTAP-15	(OH)	312
		2042	KDFW-4	TX	1204					
		2057	KJRH-2	OK	T					
		2059	KDTN-2	TX	1203					
		2149	KTBS-3	LA	T					
<u>SEPTEMBER 1994</u>										
			11 ES	1742	KPRC-2	TX	1302			
							(s/l. strong!)			

NOTES: Some rare September ES to Texas-Louisiana with exceptionally strong signals. Some tropo to the Louisville KY, Washington DC, and Sherbrooke PQ areas... but overall tropo signal strengths have generally been weak... although WDCA-20 had a great signal... the best ever seen from Washington. Plans for outdoor antennae have been put on hold -- as it now appears likely that I will be transferred from Toronto to Hamilton. Perhaps next summer I will be moving into the area just east of Hamilton (Grimsby-Lincoln-St Catharines).

Eastern TV-DX

November 1994

Doug Smith, 1385 Old Clarksville Pike, Pleasant View, TN 37146-8098

Equipment: Sears 19" color stereo TV, Archer VU-160 for VHF;
RS corner reflector for UHF, with a CM-7475 preamp.

September 1994

24 tr 0120 WTTO-21 AL (201)
0123 WBMG-42 AL (201)
0125 WVTM-13 AL (200) Conan
0132 W49AY AL Birmingham Rel.
0133 WABM-68 AL (202) old movie
0144 WCFT-33 AL (223)
W52AZ IN (113) S. IL way up
WKZX-28 TN (100) 32kw

October 1994

4 tr 0053 WTVA-9 MS (212)
0105 KAIT-8 AR (217)
WLLOV-27 MS (212)
0900 WMAW-14 MS (315)
WTOK-11 (T)
WJSP-28 GA (279)
0941 WCFT-33 AL (223)
WTJP-60 AL (181)

Comments: Finally, a decent Birmingham opening! WBMG nearly
snow free at 0300, gone by 0130. (Is there flat terrain between
Pleasant View and Birmingham? sw)

Gary Siegel, 2955-115th Street, Toledo, Ohio 43611

Comments: This is my first report to the VUD, but I have been
DXing since 1970 at two locations. (Point Place/Toledo) At the
strong request of VUD member Frank Merrill I'm sending this report
of some of the best DX ever received. This skip season was almost
as good as the tropo of 1980.

June 1994

29 2Es 1440 YVBT-3 Barcelona, Venezuela This was absolutely destroying
WEDU-3 FL, quick fading, strong audio. SS soaps and ads for the World
Cup '94 then a Radio Caracas Television ID slide appeared in the upper
left 1/4 of the screen. I found this by freeze framing the video tape
I recorded. I believe this is the station that Harry Hayes reported
seeing in the Aug. '94 VUD!

28 Es 1600 KOB-4 Albuquerque, NM



July 1994

5 Es 2130 XHY-3 Merida, Mexico Lone skip with deep fades w/World Cup.

August 1994

10 tr 1959 WFTE-58 Salem, IN // 41 in Louisville, KY dual ID noted.

Does anyone know of the calls for Detroit LPTVs on 26 & 44? Both
were logged in May. W47BD in Findlay, OH uses WFND-TV as their ID.

Richard Contone, 162-07 87th Street, Jamaica, N.Y. 11414

Comments: I have been receiving the low power TVs from Long Island
and the HSC stations in NJ. I am using a Pascal dual barometer.
I may have had Atlanta, GA on CH. 36 August 24th. They were Fox.
(2130 EDT) I would like to improve my TV photo results.

SOUTHERN FM DX

NOVEMBER 1994

Danny Buntin
1312 N. Skyline
Stillwater, OK 74075

DEADLINE: 14th

SOUTHERN FM DX is for reporters from: AL, AR, AZ, CA, CO, DE, DC, FL, GA, HI, KS, KY, LA, MD, MO, MS, NC, NM, NV, OK, SC, TN, TX, UT & WV. Report today!

OCTOBER TROP PICKS UP SOME FOR A COUPLE OF REPORTERS.

Douglas E. Smith, 1385 Old Clarksville Pike, Pleasant View, TN 37146-8098

Equip.: Technics ST-G50, Archer VU-160 at 15'

8/30 tr

0029 WCIL 101.5 IL Carbondale, "CIL-FM" 151
0034 KHLS 96.3 AR Blytheville, k\$ o/ local
WRMX 151
unID 95.7 "Kicks 96", rs\$
0052 WSIE 88.7 IL Edwardsville,j\$ 229
KDHX 88.1 MO St. Louis, "St. Louis
Public R." 231
0107 KTEI 105.5 AR Piggott, "105.5 FM KTEI"
unID 104.3 "Oldies 104.3", "Rockin'
the Heartland"
0126 WUEZ 103.5 IL Christoper, b\$
0324 KSD 93.7 MO St. Louis,"93-7 KSD" 233
0336 WIBI 91.1 IL Carlinville, Springfield
wx 252
0342 KPWB 104.9 MO Piedmont, "wx from KPWB"
0400 WNSR 104.7 IL Nashville, "WNSR Soft
Rock 104.7" 183
0403 KYRX 104.7 MO Chaffee, legal ID 149
0820 WHHT 103.7 KY Cave City, "103.7 WHHT",
usually buried by WBLN 78
0821 WLME 102.9 IN Cannelton, "Oldies 102.9
WLME" 107
0830 WMDH 102.5 IN New Castle,Muncie ads269
0831 WMYU 102.1 TN Sevierville, "U-102" 194
0835 WKYL 102.1 KY Lawrenceburg, "FM 102.1
WKYL" 165
0844 WKYM 101.7 KY Monticello,local ads 126
0847 WIHI 99.9 IN Terre Haute, "I-99 WIHI"
0853 WXBQ 96.9 TN Bristol, calls, ads 274
Note 1
0900 WCRC 95.7 IL Effingham, legal ID and
local news 204

8/30 tr

0915 WFBO 94.7 IN Indianapolis,"Q95,ads 246
0916 WMXL 94.5 KY Lexington, "Lexington Wx"
0922 WKIO 92.5 IL Urbana, "Oldies 92 WKIO"
0926 WITS 92.3 IN Bloomington,loc.ads 214
0930 WTHL 90.5 KY Somerset, local under-
writing 148
0938 WHKW 107.7 IN Corydon, "The New 107-7
WHKW, the Hawk", k\$ 133
1113 WWBL 106.5 IN Washington, "Real Country
Bullet 106.5", SW Indiana talk
1118 WJRS 104.9 KY Jamestown, ad 119
1120 WMQQ 102.7 KY Springfield, "WMQQ 102.7
Weather" 113
1123 WWEG 102.5 IN Mitchell, calls 158
1132 WHKO 99.1 OH Dayton, calls,"K99.1 FM",
"Most powerful signal in the Miami Valley"277
9/3 tr

0009 KMVK 106.7 AR Benton, "The Maverick
106.7 FM" 333
0950 WWZD 106.7 MS New Albany, ad for WLOV-27
1042 KOLL 94.9 AR Maumelle, "Cool 95"

11/4 tr

0053 WMAE 89.5 MS Booneville, c\$ 151
0101 WSIB 93.9 TN Selmer, mrs,"93.9 WSIB FM"
0910 WKLS 96.1 GA Atlanta, "on 96 Rock,
0935 WTAK 106.1 AL Hartsell, rps 132
0938 WODL 106.9 AL Birmingham, "Oldies 106.9",
ads 201

Note 1: Geez. If they'd move the studio two miles to Virginia,I'd have had a new state,hi.

Note 2: Chicago now in on UHF.

Hank Holbrook, 407 Arundel Rd., Fair Haven Cliffs, Dunkirk MD 20754

Equip.: Fisher 101-\$(old tube set given to me by neighbor - has been tuned up by Al Germond and should be a good tuner sensitive and selective)

Antenna-Winegard CS-6065 single bay 10 element yagi with Channel Master HD-9515 rotor
(Stations not as yet QSL'd - report sent - we do not repeat loggings!) (Yeah, for some people the thrill is gone for the next time around. DB)

92.1 WLBW Fenwick IL. DE tr 82 mi. 1557-1820 EDT, new station

92.9 WYHH Smyrna, DE tr 60 mi 0924-1005, spread out Delaware talk show, ads, new station
97.1 WLFX Ocean City MD, tr 76 mi 0856-0928, very rough station to pull in, WASH DC really dominates this channel(35 mi., 26 kw). Takes super opening for this one. (I count my blessings that I don't live in your part of the country, then. DB) "CLASSIC ROCK 97-1 FOX"

91.7 WBGL Champaign, IL Es 633 mi. June 12 2009-2010, "...Right here WBGL."

106.9 WRXS Ocean City, MD tr, 82 mi. 0757-0835 June 17, new station,X107 modern r

93.1 WHYN Springfield MA tr 310 mi 0632-0727 6/21, Oldies 93 HYN, ads, wx tfc, sports, nx
89.1 WBSN New Orleans, LA Es 986 mi 1859-1920 EDT 6/21, IDs, Reading for the blind and handi.
(Many unID stations on the June 21st skip opening. Ones ID already QSL'd - KVTT 91.7 &

KERA 90.1 TX plus KRVS 33.7 LA).

92.5 KSYN Joplin, MO Es 989 mi 1114-1128 6/27, ads, contest

92.5 KOMZA Oklahoma City, OK Es 1181 mi 1115-1124, oldies, ads. KOMA but dominated channel.

92.9 KZOC Osage City, KS Es 1043 mi 1223-1230, KZ-93 k, ads PSAs

88.7 KLNE Lexington Neb Es 1243 mi 1258-1310, BBC nx, IDs

(Many unIDs - ID but not needed KOSU 91.7 OK We had a tornado watch at this time best opening in a long time.)

cont.....

SOUTHERN FM DX

Holbrook, cont.

NOVEMBER 1994

88.5 WMNF Tampa FL Es 831 mi 6/29 1641 EDT, wx, thru local WAMU DC, brief, then gone
 93.3 WQUE New Orleans LA Es 986 mi 6/29 1520-1535 EDT, o/WFLS VA, plenty ads, wx
 89.1 WAYG Sarasota FL Es 864 mi 7/4 1923-1937, CHRISTIAN HIT RADIO - WAY-FM, strong at times
 88.7 KTPB Kilgore TX Es approx. 1140 mi 7/13 1356-1405, c, ID (Mobile reception on 1990
 Toyota auto AM/FM radio w/auto whip. Mary Ellen and I traveling Fair Haven Cliffs to Dover DE to visit DXer Cornelia Campbell. Received shortly after crossing Chesapeake Bay bridge. Got kick out of hearing TEXAS on the car radio. Other skip on ed. band, only KTPB IDed.
 92.9 KJEF Jennings LA Es 1043 mi 7/14 1043-1049, ads, Cajun County KFE, strong at times.
 89.1 KHNE Hastings NEB Es 1171 mi 7/19 1154-1216, // to KLNE 88.7 which was stronger, had separate ID, c, QRM at times KWFC MO. Earlier on 89.1 KMUW KS.(both KWFC & KMUW QSled here.
 97.9 WSKQ New York NY tr 189 mi 7/25 0826-0853, Spanish program, several anncks joking
 97.9 WSLB Selbyville DE tr 72 mi 0853-0929 7/25, New station, only 2nd time heard. k"B-98"
 93.1 WDOX Wildwood Crest, NJ tr 91 mi. 7/25 0735-0810, r, IDs, ad, NEW STATION
 92.9 KBEZ Tulsa OK weak skip or M/S?? 1083mi 1342 8/11, ads
 (This had to have been a COLOSSAL SEASON as to this point I had sent reports to 23 stations. Al Germond popped in and found that my old RG cable in operation over 20 years was producing but JUST BARELY. So Al rewired the system, tuned up the old Fisher 101R and we are now 'perking' again. Our barometer WBGO Newark, NJ on 88.3 is once again pounding in daily thru most any reception conditions. Newark at 185 mi. has always been the best from New York City area here. **WITH THE REJUVENATED SYSTEM ADD:**
 89.1 WXHL Christiana DE tr 77mi 0343-0445 9/9,g, ad
 88.9 WFBS Smithtown NY tr 9/9 1058-0431 228mi, g, psa, nice report
 103.3 WARM York PA tr 9/13 85 mi 9/13 1050-0215, AC music, plenty ads, "WARM 103"

Matt Sittel, 603 Fulton Rd., Apt. B-24, Tallahassee FL 32312-2214

Equipment: Yamaha TX-900U tuner, Archer rabbit ears

7/6 Es		8/30 tr
1759 JBC	92.1 JAMAICA, calls	0731 WKXI 107.5 MS Magee, nx 335
1759 JBC	91.1 JAMAICA, // 92.1	0733 WJDQ 101.3 MS Meridian, Q101 290
1804 KLAS	89.3 JAMAICA, calls	0734 WOKK 97.1 MS Meridian, 970KK 290
7/9 Es		0741 WINL 98.5 AL Linden,local ad 241
2036 KTYL	93.1 TX Tyler, calls 661	9/28 tr
2036 KBHT	93.5 TX Crockett 665	0820 WRKF 89.3 LA Baton Rouge 410
2045 KOAI	107.5 TX Fort Worth, j 783	0821 WNOE 101.1 LA New Orleans, k 349
2044 KYIY	104.7 TX Burk Burnett 870	0842 KCIL 107.5 LA Houma,area ment. 389
2049 KICM	105.7 OK Healdton, ad 812	0845 WLTS 105.3 LA Slidell 327
2054 KVKI	96.5 LA Shreveport, ad 574	0846 WEZB 97.1 LA New Orleans 349
2101 KVTT	91.7 TX Dallas, ID 752	9/29 tr
2103 KXGM	106.5 TX Muenster 797	0719 KQQK 106.5 TX Galveston, SS 634
2103 KOOI	106.5 TX Jacksonville 657	0723 WBMH 106.9 AL Birmingham, o 256
2112 XHAAA	93.1 TA Reynosa, SS 904	0729 WRKF 89.3 LA Baton Rouge 410
7/11 Es		0736 KRYX 99.1 TX Corpus Christi 812
1233 KXTR	96.5 MO Kansas City 833	0742 WYLD 98.5 LA New Orleans 349
1234 KNWC	96.5 SD Sioux Falls 1133	0750 KOUL 103.7 TX Sinton, calls 812
1234 KGGL	95.5 IA Sioux City 1068	0753 KMDL 97.3 LA Kaplan,calls 478
1236 KWYR	93.7 SD Winner, Magic 1237	0756 KLTG 96.5 TX Corpus Christi 812
1237 KKYA	93.1 SD Yankton, KK93 1122	0800 KFXY 96.7 LA Morgan City, ID 416
1240 KRRO	103.7 SD Sioux Falls 1133	0821 KCIL 107.5 LA Houma, C107 389
1241 KFRX	102.7 NE Lincoln, calls 996	0830 KLRZ 100.3 LA Larose, Z100 381
1247 KTSB	93.9 IA Sioux Center 1090	0831 WEZB 97.1 LA New Orleans,B97 349
1248 KNEN	94.7 NE Norfolk, calls 1082	10/1 tr
1250 KSYZ	107.7 NE Grand Island 1068	0951 WHLZ 92.5 SC Manning, Wheels 326
1252 KEXL	106.7 NE Norfolk 1082	0955 WESC 92.5 SC Greenville 322
1253 KSUX	105.7 NE Winnebago 1057	1000 WYFG 91.1 SC Gaffney, ID 353
1255 KKLS	104.7 SD Sioux Falls 1133	1009 WENN 107.7 AL Birmingham,Wenn 256
1259 KITR	101.3 IA Creston 924	1011 WRDX 106.5 NC Salisbury 421
1259 KPNO	90.9 NE Norfolk, ID 1082	1022 WZNY 105.7 GA Augusta, calls 249
1300 KTSD	91.1 SD Reliance, ID 1258	1033 WNNX 99.7 GA Atlanta, 99X 226
1301 KBIA	91.3 MO Columbia, ID 742	1037 WCOS 97.5 SC Columbia, calls 308
1302 KMIT	105.9 SD Mitchell, nx 1186	1038 WRXR 96.3 SC Aiken, 96RXR 261
1304 KWPN	107.9 NE West Point, nx 1047	1050 WTCB 106.7 SC Orangeburg 290
1310 KCHI	103.9 MO Chillicothe, nx 829	1059 WLJK 89.1 SC Aiken, ID 261
1318 KLDZ	95.1 NE Lincoln, o 996	
1321 KIKN	100.5 SD Salem, area ad 1165	
1326 KSEZ	97.9 IA Sioux City,Z98 1068	
1341 KZNC	92.1 SD Huron,local ad 1226	
1350 KEZO	92.3 NE Omaha, ad 990	
1358 KQSD	91.9 SD Lowry, ID 1327	

The latter half of the skip season was not much to brag about here. Trops look to be picking up though. I'll be working in Asheville NC soon (I hope) so I'll be moving sometime in the near future. Log total 1151. 73s Matt

NORTHERN FM-DX

GREG CONIGLIO

5100 GLENWOOD DRIVE

WILLIAMSVILLE, NEW YORK 14221

e-mail: coniglio@geog.buffalo.edu

coniglio@acsu.buffalo.edu

V131KKDN@UBVMS.BITNET

For DXers in: MA,NH,VT,CT,MA,RI,NY,PA,NJ,OH,MI,IN,IL,WI,MN,IA,NE,SD,ND,MT,WY,ID,WA,OR,AK,Canada

NOVEMBER 1994 — DEADLINE: The 5th — LOG CUTOFF: 3 months from postmark

This is probably the biggest November column that I have ever done! This continues to be due to reports from the excellent e-skip season, the best ever according to many DXers. August had quite a bit of skip, probably above average for that month. In addition, trops picked up for some DXers during the month of August, with reports continuing to come in from the super August 10th Midwest-East Coast opening. We also welcome two new reporters this month! The off-season may be upon us, but keep listening, for the occasional big off season tropo opening, and also tropo-scatter can get really strong this time of year. Let's hear from you!...

FRANK MERRILL - P.O. BOX 669 - MACOMB, ILLINOIS 61455

JULY 1994 DX

5 Es

2200 XHAAA 93.1 TA Reynosa (on car
radio at Coralville, Iowa) 1150

8 GW

1907 WSCT 90.5 IL Springfield, WIBI 91.9
jingle, former log as translator 80

11 Es

0933 XE/XH... (Monterrey, NL to 94.1) 1161
0938 XHXL 91.7 NL Monterrey, "Somos primera
en la banda", therefore no Monterrey NL FMers exist
yet below 91.7, why? 1161

0948 KOYE 94.9 TX Laredo 1035

1138 WAVH 96.1 AL Mobile, Fairhope ad 689

1142 KIDA? 98.5 "compliments of your friends at
KIDA but haven't had a chance to recheck tape"

1145 WJMG 92.1 MS Hattiesburg, "because the guys
are coming to Hatt.", soul music 636

1150 WZEW 92.1 AL Fairhope, local ad 704

1151 KHOS 92.1 TX Sonora, Pearsall and
Sonora State Bank ad

1156 WOKK 97.1 MS Meridian, local ads *569*

1156 WUSD 97.9 MS Wiggins, new k, US98 669

1157 KELI 98.7 TX San Angelo, West Texas
ad, back at 1201 with legal ID 827

1205 XHCHF 104.5 CH Chihuahua, "XHCHF, 104.5
Estero Recuerdo, con 50,000 w. transmitiendo desde
Chihuahua, Chihuahua" (not in FM ATLAS) 1199

1212 unID-93.5 "I-93.5", country format (Frank,
I am fairly certain this is WIZK-Miss.-gc)

1214 WQGL 93.5 AL Butler, Choctaw
County... Q 93.5" *594*

1220 WKTF 95.5 MS Jackson, Catfish 95,
prev. via tropo *564*

1231 WJXN 92.9 MS Utica, wx, "Cen. MS's gospel
....XN & WJNS-FM" (Apparent simulcast with
Yazoo City 92.1, close skip, only listed 900w!) *576*

13 GW/Tr & Es

0445 W263** 100.5 IL? WCIC xltr (91.5 Pekin)
Suspect this is in Canton, seems to always be there
weakly in WYMG-IL null

1503 KPQX 92.5 MT Havre 1092

2218 KYYA 93.3 MT Billings 970

July 14th Tr & Es

0358 WAES 102.3 IL Teutopolis, "It's the newest and
hottest thing in Effingham, 102.3 WAES Teu.
Effingham", strange, freeform soft rock? 145

0956 WHMC 90.1 SC Conway, // to below NOTE 1

0958 WNSC 88.9 SC Rock Hill, stay tuned for more
of the Morning Concert here on S.C. Public Radio 651

0958 WRJA 88.1 SC Sumter, same as above 720

1001 WKPX 88.5 FL Sunrise 1160

1009 WKGR 98.7 FL Ft. Pearce, WKGR Rock

and Roll Classics 1076

WIRK 107.9 FL W. Palm Bch. 1128

1015 WCFB 94.5 FL Daytona Beach, Young

Country B-94.5 951

1017 WFIT 89.5 FL Melbourne 1029

1020 WHYI 100.7 FL Ft. Lauderdale 1162

1100 WNLU 89.7 FL N. Smyrna B. Listener

supported WNLU, N. S. Beach, NOTE 2 963

1101 WEDG 93.1 FL Edgewater 965

1105 WDIZ 100.3 FL Orlando 978

1110 WHTQ 96.5 FL Orlando 978

1114 WAVW 101.7 FL Vero Beach 1063

1119 WMMO 98.9 FL Orlando, call letters and

DJ talking, new for me? 978

1121 WSCF 91.9 FL Vero Beach, enhanced

underwriting announcements (read: ADS!!) another

new?? for me, or relog? 1063

1133 WJIS 88.1 FL Bradenton 1009

1141 WQYK 99.5 FL St. Petersburg 990

19 Es

0905 WNHW 92.5 NC Nags Head, almost always
the easiest N.C. here 871

0908 WVOD 99.1 NC Manteo, 88° on the Cape, 86°

here at the Manteo Waterfront, calls 873

0921 WERX 102.5 NC Edenton, Rock 102.5

WERX, after live rock cut 819

(WKOC 93.7 NC, not a trace of this one, huh?)

0929 WOBR 95.3 NC Wanchese 876

0930 WQOK 97.5 VA S. Boston, NC seat belt PSA

Hick's Auto Ins in Raeligh, K-97.5 Triange wx 690

0936 unID-100.7-Sprint Carolina telephone, Darrell's

Restaurant, concert at the creek, JINGLE: The

Best Oldies..... (I would bet WTRG-gc)

Frank Merrill's report continues.

July 19th Es cont.

0941 WKJA 101.1 NC Belhaven, Cool 98.7 & 101.1 jingle, oldies format 837
 0942 WFXK 104.3 NC Tarboro, 941-1071 in Durham 821-1043 in Raleigh, Foxy 107 & 104 780
 0943 WFXC 107.1 NC Durham, // to above, but much weaker, yay! 709
 0949 WPCM 101.1 NC Burlington, calls 681
 0951 WKQO 98.7 NC Jacksonville, "Cool 98.7 & 101.1", WKOO/WKJA legal ID 825
 0954 WKTC 96.9 NC Tarboro, Wilson ad, KT-Cntry another 9 in a row on WKTC" 775
 1000 WTKE 107.3 NC Atlantic, "107.3...Atlantic Morehead City" at tune in 860
 1005 WQMG 97.1 NC Greensboro, local ads 664
 1009 WZXS 103.9 NC Topsail Bch, Crystal Carolina's WZX 103.9" 826
 1011 WKQT 103.3 NC Newport 853
 1012 WTND 99.5 NC Grifton, "from the station that brought country music to E. NC, Thunder 99.5" 802
 1017 WRSV 92.1 NC Rocky Mount 765
 1018 WSFL 106.5 NC New Bern, calls, talking re: concert stuff 830
 1019 WRDU 106.1 NC Wilson, Triangle Health Spa 5 locations (ment. Raleigh, Durham, others) 766
 1026 WNCT 107.9 NC Greenville, Lite 108, Lite 108 WNCT jingle 798
 1029 WHLQ 102.5 NC Louisburg, Country-Q, 102.5 FM, 85° at 1130, local ads/mentions 735
 1034 WWQQ 101.3 NC Wilmington, today's hottest country, Double-Q 101.3 jingle 822
 1038 WSAY 98.5 NC Rocky Mount, local ad 765
 1039 WQSM 98.1 NC Fayetteville, 2 Fayetteville ads Q98 jingle 743
 1045 unid-98.3-Keep it here for the best mx, Q98.3
 1049 WZZU 93.9 NC Burlington 681
 1054 WNNT 100.9 VA Warsaw, "River Country 100.9 Warsaw-Tappahannock-Northern Neck" 764
 1103 WJFK 106.7 VA Manassas 712
 WGMS 103.5 DC Washington, c music, tent.
 1105 WKRE 107.5 VA Exmore, local ads 822
 1122 WDCU 90.1 DC Washington, talking about an auction that "we" (person on an interview show) are having at U. of Maryland 734
 1124 WHURt 96.3 DC Washington, call 703-931-9393 if late on a mortgage 734
 1126 WGAY 99.5 DC Washington, lots of local stuff, Dulles/BWI temps, etc. 734
 1135 WJBR 99.5 DE Wilmington 801
 1136 WSHH 99.7 PA Pittsburgh, Great songs by Barbara Streisane, etc. on Wish 99.7, ad for Pittsburgh that ment. I-79 exit *561*
 1139 WTTH 96.1 NJ Margate, Atlantic C. ad 860
 1148 unID-88.1-Public Library film festival, call 227-8411 for more information (maybe I should just try calling this # for the few area codes around the Es are until I get a library?
 1203 KLYT 88.3 NM Albuquerque

July 20th Es

1057 WKQS 94.7 FL Gifford, local ads, and legal ID "WKQS Gifford" at 1100 1050
 1105 WGDD 102.3 FL Melbourne 1029
 1108 WNCM 88.1 FL Jacksonville 863
 1112 WLOQ 103.1 FL Winter Park 976
 WIRK 107.9 FL W. Palm Beach (too many Florida's to mark down) 1128
 1114 WBTY 105.5 GA Homerville, evangelist with Homerville address, then local ad 788
 1123 WYOC 104.9 FL High Springs 864
 1125 WXOF 97.1 FL Beverly Hills, "Fox 97.1" be careful not to confuse with WFOX-GA, sponsored by ?? of Citrus County, and more local sponsors 926
 1128 WJIZ 96.3 GA Albany, "WJIZ Z96, time to to the phone lines (Black History trivia contest) 712
 1129 KA2XXZ 107.9 FL Columbia, long tourist promo for Disney World, in for about 80 or 90 seconds, then lost to WIRK, NOTE #3 852
 1141 WHKX 99.9 FL Lafayette, "from Tallahassee Tire, watch out for the Kix crew, Kix 100 FM" 787
 1147 WGUL 105.5 FL N. Port Richey 956
 1150 WCKT 107.1 FL Lehigh Acres 1089
 1151 WBGF 93.5 FL Belle Glade, rare 1112
 1153 WOVV? 95.5 FL Ft. Pierce, "Star 95.5" call change? (no, just the slogan-gc) 1076
 1155 WCTQ 92.1 FL Venice 1036
 WRLX 92.1 FL W. Palm Beach 1128
 1158 WPRK 91.5 FL Winter Park, calls 976
 1159 WFSQ 91.5 FL Tallahassee, legal ID 781
 1204 WXVS 90.1 GA Waycross, "You're listening to Peach State Radio Network" 790
 1212 WPHK 102.3 FL Blountstown, local obituary in Blountstown 760
 1215 WAPY 100.9 FL Apalachicola 807
 1217 WTBB 97.7 FL Bonifay, many local ads/ phone #'s, Highway 98, etc 723
 1221 WDJR 96.9 AL Enterprise, Hot Country 20 min. after noon, wx, local ment. 686
 1234 WMLot 104.9 FL Havana, most likely, "Luncheon Memories", m, MONO
 1936 WJMN 94.5 MA Boston, 1024
 1951 MUF 95.9
 1958 WMSJ 91.9 ME Harpswell, g, "Hope you've been blessed by what we've done for you on WMSJ Maine-grown music" 1085
21 Es
 1300 KRTS 92.1 TX Seabrook 792
 1301 KLDE 94.5 TX Houston, legal, prev Tr 784
 1302 KHMX 96.5 TX Houston, "Houston!" jingle at tune in, ex-tropo
 1305 KJOJt 103.3 TX Freeport, preaching 837
 1306 KQUE 102.9 TX Houston, local temps, DJ talk with calls, m format, prior via tropo 784
 1315 KKZR 106.9 TX Conroe, calls, and satellite talk, Z-Rock?? 750
 1324 KSZP 95.3 TX S. Padre Island, Food Bank of Rio Grand Vly, Inc, with unid XH-- 1067

Frank Merrill's report continues.

July 21st Es cont.

1326 XHMLS 101.5 TA Matamoros, Matamoros ad in Spanish 1081
 1327 KIXS 107.9 TX Victoria 882
 1333 KWVS 97.5 TX Kingsville, The Waves 984
 1338 KEYI 103.5 TX San Marcos 838
 1338 KTTX 106.1 TX Brenham, Brazos Valley weather, 12 in a row on K-Tex 106 (Frank I assume "KZTX" was a typo?) 358
 1340 KSMG 105.3 TX Seguin 858
 1341 KMIO 105.1 TX Robstown, "produced" ad for Robstown thing, then into Spanish, tossing WGEM-IL (nearly same direction) around 962
 1344 XH-- 105.3 NL Monterrey??
KDIL 106.7 TX Terrell Hills 877
 1348 KXTN 107.5 TX San Angelo, calls sounded like KXEF 879
KVLY 107.9 TX Edinburg 1070
 1349 KGSR 107.1 TX Bastrop, Elaine Boosler at the Backyard, call ?3?-KGSR for tickets 806
 1351 KHLR 103.9 TX Cameron, CD 103.9 after Bryan Adams song, call 260-1039 752
 1353 KPEZ 102.3 TX Austin, several Austin ads "now more continuous classic rock and roll, KPEZ Austin, Z102" (at 1354) 809
 1357 KPLE 104.3 TX Temple, local ads for Temple (2), legal ID T./Killeen/?? 747
 1400 KOOC 106.3 TX Belton, ID with Temple and Killeen 752
 1405 KRNH 95.1 TX Comfort, "This is Real Cntry for the Hill Country on the Range 95.1" 830
 1406 KCKR 95.5 TX Waco, New Kicker 95.5 691
 1408 KVET 98.1 TX Austin, K-Vet Radio, Austin area Big Brothers and Sisters (relog?) Geez, how many Austin facilities have had these calls? 809
 1410 KHHT 93.3 TX Killeen, Es fading fast 756

AUGUST 1994 DX

6 Tr

1951 KNOD 105.3 IA Harlan, "We're easy to listen to, 105 FM, KNOD", jingle 256
 2244 KTLB 105.9 IA Twin Lakes, K-97 and K-106 FM, Ft. Dodge/Sac City, ads, n. cen Iowa ment, 245

7 Tr

0559 KNOW 91.1 MN Minneapolis, AM-FM ID 339

9 Tr

0630 KCMR 97.9 IA Mason City, legal ID (also had KFNW-t overnight with satellite religion but my description didn't jive with KFNW; is KCMR Christian music overnight?) 228
 1225 KJKI 107.5 ND Grand Forks, new tropo state Applebee's in Grand Forks, Something on Hwy 81 in G.F., Rock 108 slogan 646
 1633 K295AC 106.9 IA Iowa City, KCCK underwriting statement 93
 1637 WKBH 105.5 WI Trempealeau 248
 1656 WIXX 107.1 WI New Richmond, It's time for New Country News on WIXX, I'm Bryan Lee" 336

August 7th Tr cont.

1700 WHWC 88.3 WI Menominee, complete wx info on WI Public Radio, took out KCCK-IA
 1701 WMEQ 92.1 WI Menominee, legal ID Menominee/???. /--- Falls 313
 1709 KOQL 107.9 MN Anoka, Crystals "He's a Rebel", called them heard it parallel on the phone and they confirmed they were playing it locally not off Satellite), took out KFMW, long wanted! 355
 1719 WVCX 98.9 WI Tomah, burying WPXR-IL in the same direction, RARE! 244
 1742 WQPM 106.1 WI Princeton, end area traffic weather, Country Q106 383
 1748 KCHK 95.5 MN New Prague, jingle "classic gold KCHK" (nice, Class A) 318
 1749 WRDN 95.9 WI Durand, MONO, polka version of "Spanish Eyes" (Did same thing with the phone as KQQL above, Brewers BB later) 297
 1819 WIGM 99.3 WI Medford, local ads in pause in Brewers game 325
 1831 KFSI 92.9 MN Rochester, "Sunday aft. at 3:25, here on KFSI, Rochester", burying Dubuque 264
 1843 WJBL 93.1 WI Ladysmith, local ads and calls, never expected this relog 348
 2028 KMFX 102.5 MN Wabasha, calls (or is it Lake City now?) 281
 2036 KAGE 95.3 MN Winona, Winona ad, "Kay Gee Country 1380" 254
 2039 KWNO 99.3 MN Rushford, prizes and tickets can be picked up at KWNO Winona 245
 2318 KWWK 96.5 MN Rochester, Olmstead Co. fair, Twins BB, etc, of WMT 264
 2339 WYTE 96.7 WI Whiting, my notes say "calls given as part of call letters" HUH? (probably meant "part of phone number") 284
 2347 WLTE 102.9 MN Minneapolis, calls at tune in, phone # 893-WLTE, W-Lite, etc (took out KQCR same direction, tried for this a zillion times, think this completes "major" Twin C's for me) 339

10 Tr

0019 WHKW 107.7 IN Corydon, calls, temp. "The Hawk" slogan 288
 0031 WDML 106.9 IL Woodlawn, calls, o 170
 0046 WGGR 106.7 IN Greenwood, "Hello this is Bill Shirk of Indy's New Rebel 106.7 WGGR 252-9171, etc" (WGGR has since gone "o"-gc) 250
 0105 WKQQ 98.1 KY Lexington, legal, rare 369
 0112 WBST 92.1 IN Muncie, presumed, clas. 279
 0253 WSGS 101.1 KY Hazard, "6" on signal meter for hours 459
 0305 WQRK 105.5 IN Bedford, only 2nd time 248
 0315 WGKS 96.9 KS Paris 377
 0351 WWEG 102.5 IN Mitchell, rare 253
 0532 WSIP 98.9 KY Paintsville, KY nx-cast Good News Today at 0534, was probably the "g" stn 0502 to 0520, same direction as WKJK-IN 461
 0540 WWDZ 94.9 IL Danville, "Z95 and Z108" (same as 95.3 and 107.9), long sought o/WAAG) 162

Frank Merrill's report continues.

AUGUST 1994 DX**14 Tr**

0513 KQLA 103.5 KS Ogden, "The switch is on to the new Q-103.5, Here's what happening in KS" 334

28 Tr

1305 WAIW 103.3 IL Spring Vly, calls in passing 98

1316 WCMW 103.9 MI Harbor Springs, a strange time of day for this 448

1325 WMUZ 103.5 MI Detroit 416

WOMC 104.3 MI Detroit 416

1441 WDET 101.9 MI Detroit 416

1442 WYCD 99.5 MI Detroit, long Young Country promo, beating out WUSN 416

1920 WNKO 99.9 OH Toledo, k, taking out mega-pest WBUS-IL, called a Toledo DXer who confirmed the // local programming for me 381

2337 KNZA 103.9 KS Hiawatha, a strange time for a sign off??!! 260

2353 KFGE 105.3 NE Lincoln, Froggy 105.3 local ads, "Lincon's Hot Country" 317

2358 KLTH 93.9 MO Boonville, "KTLH Boonville/Columbia, Lite 93.9" 150

29 Tr
0020 KHNE 89.1 NE Hastings 405

KLNE 88.7 NE Lexington 477

KRVN 93.1 NE Lexington 477

0057 KMNE 90.3 NE Bassett, net. sign off 482

0100 WYMG 100.5 IL Jacksonville, noted OFF THE AIR for the first time ever 55

0130 K220CN 91.9 MO Kirksville, "a public service of KLJC" (intense tropo apparently had co-channel

Kansas City burying usual WGCA) 102

0140 KXAC 100.5 MN St. James, calls + freq, weak not really within the bounds of the opening 317

0519 WQRM 88.8" IL Macomb, see NOTE 6 1738 WVZA 92.7 IL Herrin, weather, "the most music, Visa FM, 92.7 WVZA" 205

1830 WWYN 106.9 TN McKenzie, "8" on the signal meter for hours 320

1838 KYMO 105.3 MO East Prairie, Sikeston & Charleston ad, "KYMO 24-hr wx center", o 263

1846 WBLN 103.7 KY Murray, Murray St. Sports Net., local ad "here in Callaway Co.", etc. with WDBR Springfield buried 294

1851 KDEX 102.3 MO Dexter, temp "at your radio station, KDEX", unthinkable logging here, never even TRIED for this before 255

1936 WTNV 104.1 TN Jackson, calls, birthday promo give address of POB 1119 Jackson 38802 349

Aug. 29th Tr cont.

2017 WMXX 103.1 TN Jackson, "all over west TN people are staying cool, with 50 kW of Cool 103" 349

2028 WNKP 90.1 TN Jackson, wx, then legal ID for WKNO/WKNP/WKNA/WKNQ 349

2031 WKNQ 90.7 TN Dyersburg, // to 90.1, could faintly hear UNDER KWMU-MO on each side! 312

2102 KHLS 96.3 AR Blytheville, Top 9 at 9 mentioned Dyersburg, Blytheville 315

2111 WAKQ 105.5 TN Paris, "KQ-105", then heard programming parallel over the phone when I called them to confirm, took out WJVO-IL same direction didn't want this "fish" to get away 312

2140 WRJB 98.3 TN Camden, "here on Super 98 WRJB Camden, your fav. song is coming up" 333

2242 WIKQ 94.9 TN Greeneville, calls as I tuned in into Jethro Tull song, haven't a clue how this came in as there was nothing else that far east 518

2259 WFRQ 94.9 TN Waynesboro, "WFRQ Waynesboro, Froggy 94.9, the best and most country" (nice to get 2 new Tenn's, thru my 40 mile local WAAG) 389

2304 WCBL 102.3 KY Benton, calls, 65° temp "sports ldr in the Lakes area, WCBL" 277

2352 WCCK 95.7 KY Calvert City, easy listening same as Ed Phelps (his local) 260

2356 WWGM 93.1 TN Alamo 333

30 Tr

0007 WQZQ 102.5 TN Dickson, "playing the rock for Clarksville on Classic 102" 350

0102 WHOP 98.7 KY Hopkinsville 301

0109 WNTC 93.5 IN Chandler, "WNTC Music Radio, 93.5", jingle, weak 255

0127 WYNU 92.3 TN Milan, another "phone catch" with parallel prog., jock said she'd throw a "Power 92" jingle for me and she did, but no calls 330

0129 WGFX 104.5 TN Gallatin, "Arrow 104.5", all rock&roll oldies, new calls? (no-gc) 361

0140 WZDQ 102.3 TN Humboldt, "Jackson's Q102" Third new 102.3 this opening! 334

0142 WLSZ 105.3 TN Humboldt, Class A that I never expected to re-log 334

0150 WWEZ 97.5 TN Trenton, Easy 97.5, gave address as PO Box 500 Trenton 323

0259 WGTR 107.1 KY Smiths Grove, "the 50,000 w. Gator, Smiths Grove" (may be relog) 336

0307 WWKF 99.3 KY Fulton, "music radio KF99" (with KCGQ-MO finally yielding after hours of dominating, also had tentative WZLT-TN) 289

0339 WNAZ 89.1 TN Nashville, calls 364



**NEBRASKA
PUBLIC RADIO
NETWORK**

P.O. Box 83111 • Lincoln, NE 68501 • (402) 472-3611 • FAX (402) 472-1785
Network Stations: Alliance/KTNE 91.1 FM • Bassett/KMNE 90.3 FM • Chadron/KCNE 91.9 FM • Columbus/K212AV 90.3 FM
Hastings/KHNE 89.1 FM • Lexington/KLNE 88.7 FM • Merriman/KRNE 91.5 FM • Norfolk/AQNE 89.3 FM • North Platte/KPNE 91.7 FM
Originating from Lincoln/KUCV 90.9 FM

Frank Merrill's report continues.

NOTE 1-0956 14 July: The 90.1 had actually faded out by the time the 0958 ID came up, but am counting it because the parallel musical programming was "local" to the South Carolina net.

NOTE 2-1100 14 July: This 1,000-watter was tough due to two 100,000-watt Floridians within easy Es range, and the Macomb translator (WGCA 88.5) also on the frequency. Was one of the two most wanted Floridians because by my sister lives there!

NOTE 3-1129 20 July: And this was the other most wanted Floridian! Most sought now is Ocala 88.1 which apparently has a format similar to the pesky south FL stations. Newest FM Atlas shows this on 107.5 with "normal" call letters, so I fears that I had lost the chance to hear this on 107.9. Supposedly 250 watts, but I have my doubts - last December I had it on the car radio as far south as Miccanopy, at least 40 miles away, without any apparent Tr

NOTE 4- 1225 09 August: Ads for Applebee's in Grand Forks, something on Highway 81 in Grand Forks, then telephone contest: "Tell everybody out there who rocks in the valley" "Rock 108!" State #25, I believe, by Tropo (trying to do it in my head). The only remaining states I feel I have any hope of adding via Tr are NY, MD, SC, FL, but all would be extremely tough.

NOTE 5: This now gives me a total of 11,373 Tr miles on 106.7, involving a total of 26 Tr catches. If WAMB-TN upgrades, that will also help. By the time Mt. Sterling IL comes on and ruins 106.7, I may not need much.

NOTE 6: This is one of those little "room-to room" FM transmitters, which are used to transmit audio from a VCR, Stereo system, etc. to another part of the house via FM. A friend set this up to transmit a radio show so that Jeff Kadet, 2 blocks away, can pick it up (weakly) on his Onkyo T-9090 FM tuner. He was shocked that I heard it three miles away, because its power probably is about 3/1000 of a watt, far below the "pirate" threshold of 100 milliwatts. I suspect that I would not hear this in "dead" conditions with no Tropo.

SUMMARY OF THE 1994 SEASON: This may be the best Es season I have ever experienced on FM! The 1989 season might be close, but this has been the year for unusual distances, both long (double hop to D.R., and XHRED 88.1, and KIZS 94.7 NV both about 1,550) and short (WSHH 99.7 PA, WVWC 88.9, Colby KS translator on 88.9 all in the mid 500's, and much in the higher 500's and low to mid 600's such as on 11 July). The season was also heavily skewed in southerly directions, with only a handful of Es loggings from north of 40° North latitude. Canadians were even rare on TV this year. The tropo season was terrible so far, but both of the two worthwhile openings - while not involving great distances - went into directions that I have had little success with previously. Let's all hope for some super-Tr this fall and winter (where, usually, the distances are greater than summer Tr, at least in this part of the Midwest), and I have to hope that I am home for it, and not in CA or MN or DE or something, hi.

WELCOME NEW REPORTER!!

MICHAEL LAROQUE - 31 CHAUCER CRESCENT - BARRIE, ONTARIO L4N 4T8

Equipment: Onkyo Integra T-9090 II with Magnum Dynalab FM 205 amplifier, with Radio Shack Supreme Yagi antenna 28' for now.

JUNE 1994 DX

9 Tr

2330 W211AL 90.1 OH Ashtabula

170

11 Es

1930 KMAG 99.1 AR Ft. Smith, k

985

1940 WYPI 89.3 TN Memphis

825

1959 KUAR 90.5 AR Little Rock, c

930

12 Es

???? WWNQ 89.9 LA New Orleans

1130

KMUW 89.1 KS Wichita

1050

(skip only in for 2 minutes)

13 Es

2330 WAYG 89.1 FL Sarasota, g

1200

2330 WMFE 90.7 FL Orlando, c

1100

(just 5 minutes long)

17 Tr

0325 WTRY 94.3 MI Leland, o

300

19 Strong Tropo

0300 WROE 94.3 WI Neenah,

430

0319 WMYX 99.1 WI Milwaukee, r

420

0400 WIXX 101.1 WI Green Bay, r

405

0401 WPNE 89.3 WI Green Bay, c

405

0420 WOZZ 93.5 WI N.London, r

430

June 21 Es

(between 2245-2315, but no identifications on frequencies 90.7, 88.7, 88.9, 90.9)

24 Tr

1530 WFRN 104.7 IN Elkhart, g

375

25 Es

1400 WJSU 88.5 MS Jackson

1000

1420 KOBC 90.7 MO Joplin

935

????? KLSA 90.7 LA Alexandria

1130

WBSN 89.1 LA New Orleans

1140

26 Tr

0200 WCSG 91.3 MI Grand Rapids

307

27 Es & Tr

1332 KMUW 89.1 KS Wichita, c

1050

2205 WXEL 90.7 FL W.Palm Beach

1230

2235 WRKU 95.1 PA Grove City, r

230

(MORE OF MIKE'S DX ON THE NEXT PAGE!)

classical 88.5
WYSU FM

NORTHERN FM DX

NOVEMBER 1994

Mike LaRoque's report continues.

JUNE 28 Es + Tr

0001 WCPN 90.3 OH Cleveland, j
 0011 WENZ 107.9 OH Cleveland
 0032 WMJI 105.7 OH Cleveland, o
 ???? WGLE 90.7 OH Lima, c
 1200 KOHM 89.1 TX Lubbock, c
 1240 KMSI 88.1 OK Moore
 1245 KQLI 94.3 OK Lawton
 1249 KXOJ 100.9 OK Sapulpa
 ???? WAPS 89.1 OH Akron
29 Es + Tr
 1835 KUMR 88.5 MO Rolla
 1840 KUHF 88.7 TX Houston
 ???? WMFE 90.7 FL Orlando
 KEOM 88.5 TX Mesquite
 KCBI 90.9 TX Dallas
 KISR 93.7 AR Ft. Smith
 WRR 101.1 TX Fort Worth
 WAYG 89.1 FL Sarasota
 WAYJ 88.7 FL Ft. Myers
 KKRW 97.9 TX Dallas
 WYFB 90.5 FL Gainesville
 2220 WHCM 99.1 WV Parkersburg, k
 2225 WRQK 106.9 OH Canton, r

30 Es + Tr

WAYG 89.1 FL Sarasota, g
 WAYJ 88.7 FL Ft. Myers, g
 WMFE 90.7 FL Orlando, c
 WXEL 90.7 FL W.Palm Beach, c
 WAYF 88.1 FL W.Palm Beach, g
 WCMQ 92.3 FL Hialeah, Sp.
 WGLE 90.7 OH Lima, c

JULY 1994 DX

1 Tr
 0420 WHMQ 107.7 OH N. Baltimore, k
 0427 WKY 104.9 OH Geneva, k
 0436 WNIR 100.1 OH Kent, talk
 1900 WGLE 90.7 OH Lima, c
 WIOT 104.7 OH Toledo, r
 WGTE 91.3 OH Toledo, c

2 Es + Tr

KOHM 89.1 TX Lubbock
 KEOM 88.5 TX Mesquite
 2200 KSTX 89.1 TX San Antonio
 2230 WBNI 89.1 IN Ft. Wayne, c
 2231 WAPS 89.1 OH Akron, c

3 Es + Tr

0122 WUSM 88.5 MS Hattiesburg
 (lasted around 7 minutes)
 WSAQ 107.1 MI Port Huron, k
 0109 WRKR 107.7 MI Portage, r
 0120 WKY 104.9 OH Geneva, k
 0138 WITL 100.7 MI E. Lansing
 0139 WNIR 100.1 OH Kent, talk
 0158 UNID-98.3 "WGTO", oldies (Mike, I have noticed
 recently a lot of Canadian stations carrying an
 overnight satellite oldies service, that goes by the
 slogan "GTO". It could be that CFLY has started
 carrying this, does anyone know?-gc)
 0200 WKAR 90.5 MI E.Lansing, c

JULY 4th Es

233	1249 <u>W207AU</u>	89.3 MS Hattiesburg	1020
233	<u>KVDP</u>	89.1 LA Dry Prong	
233	WAYG	89.1 FL Sarasota	1200
340	<u>KSBJ</u>	89.3 TX Humble	1300
1400	<u>WBSN</u>	89.1 LA New Orleans	1140

5 Tr

1190	1312 WAPS	89.1 OH Akron	250
1025	1315 WBNI	89.1 IN Fort Wayne, c	360
250	1320 WTRK	89.1 MI Bay City, g	220
	1325 <u>WNZN</u>	89.1 OH Lorain, Sp.	235

7 Tr

1300	0143 CJRQ	92.7 ON Sudbury, r	160
1100	1807 WMKC	102.9 MI St. Ignace, k	275
1200	1812 WGFM	105.1 MI Cheboygan, r	250
1200	1814 WKLZ	98.9 MI Petoskey, r	270
985	1823 CJQM	104.3 ON Sault Ste Marie	275
1225	1824 WCMM	94.7 MI Gulliver, k	340
1200	WRVE	91.7 NY Watertown	180

8 Tr

1200	0125 CKMF	94.3 PQ Montreal	307
1010	CITE1	102.7 PQ Sherbrooke	380
375	CITE	107.3 PQ Montreal	307
260	WIAA	88.7 MI Interlochen	305
	WSLU	89.5 NY Canton	250

9 Tr

1200	0135 CKMF	94.3 PQ Montreal	307
1100	0140 CITE	107.3 PQ Montreal	307
1230	0140 CITE1	102.7 PQ Sherbrook, FF	380
1230	0200 WIAA	88.7 MI Interlochen, c	305
1300	0320 WGTE	91.3 OH Toledo, c	275
340	2148 WODJ	107.3 MI Greenville, o	307

10 Tr

1400	WBNI	89.1 IN Fort Wayne, c	360
200	0225 WIAA	88.7 MI Interlochen, c	305
240	<u>WYSZ</u>	89.3 OH Maumee, g	285
340	2300 WBNI	89.1 IN Fort Wayne, c	360
275	2355 WMUB	88.5 OH Oxford, j	420
275	2359 WGUC	90.9 OH Cincinnati, c	440

11 Tr

1400	0015 WCLV	95.5 OH Cleveland, c	233
1200	0020 WGLE	90.7 FL Lima, c	340
1475	0207 WHKO	99.1 FL Dayton, k	380
360	0338 WEKH	90.9 KY Hazard, c	520
250	0415 WMMS	100.7 OH Cleveland, r	233
	0420 WCKX	106.3 OH London, r	340

12 Tr

1020	13 Es + Tr		
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1300	WHIL	91.3 AL Mobile, NPR	1040
170	<u>WUWF</u>	88.1 FL Pensacola	1035
330	KMUW	89.1 KS Wichita, c	1050
200	WBHY	88.5 AL Mobile	1040
275	KMUW	89.1 KS Wichita, c	1050
	<u>KLNE</u>	88.7 NE Lexington, c	1050
	KCME	88.7 CO Manitou Spgs, c	1340
2207	WHYT	96.3 MI Detroit, r	230
2305	WRKR	107.7 MI Portage, r	330

WBNI FM 89.1

2000 North Wells Street
 P.O. Box 8459
 Fort Wayne, IN 46898-8459

NORTHERN FM DX

NOVEMBER 1994

Mike LaRoque's report continues.

JULY 1994 DX14 Es + Tropo

0123 WSLU 89.5 NY Canton, c
 0124 WLKC 100.7 NY Henderson, k
 0138 WITL 100.7 MI Lansing
 0158 CKMF 94.3 PQ Montreal, d
 0432 WNIR 100.1 OH Kent, talk
 WBCT 93.7 MI Grand Rapids, k
 0500 WVGR 104.1 MI Grand Rapids, c
 0500 WOOD 105.7 MI Grand Rapids,
 1103 WVAS 90.7 AL Montgomery, j
 1113 KETR 88.9 TX Commerce

15 Tropo

0125 CKMF 94.3 PQ Montreal
 0250 CITE1 102.7 PQ Sherbrooke
 0255 CITE 107.3 PQ Montreal
 0255 CJLA 104.9 PQ Lachute

16 Tr + Es

0145 WKAR 90.5 MI E.Lansing
 0919 WJSU 88.5 MS Jackson
 0919 WMPR 90.1 MS Jackson
 0920 WMCU 89.7 FL Miami, g
 0937 WSCF 91.9 FL Vero Beach, g
 0940 KAFX 95.5 TX Diboll
 1000 WRMB 89.3 FL Boynton Beach
 WAYJ 88.7 FL Fort Myers
 1013 WMNF 88.5 FL Tampa, j
 1021 WAYG 89.1 FL Sarasota, g
 1300 KERA 90.1 TX Dallas
 1300 KVTT 91.7 TX Dallas
 1301 KEOM 88.5 TX Mesquite
 WKPX 88.5 FL Sunrise

17 Tr

1328 CIEX 99.1 ON Toronto, Indy Racing
 (heard for a half minute, twice) (Mike, I think
 these may be the calls on that thing, but I am
 not positive, does anyone know?-gc)

19 Es

WBDX 102.7 GA Trenton
 WJTG 91.3 GA Fort Valley
 1155 KEGL 97.1 TX Fort Worth
 1115 WMPN 91.3 MS Jackson
 1200 KLSA 90.7 LA Alexandria
 1206 KNTU 88.1 TX Denton
 1224 KNOM 89.3 TX Dallas
 1226 KUAR 89.1 AR Little Rock
 1252 KWEN 95.5 OK Tulsa
 1300 KOSU 91.7 OK Stillwater
 1305 KNID 96.9 OK Enid
 2215 WMFE 90.7 FL Orlando
 2235 WVAS 90.7 AL Montgomery
 2242 WMNF 88.5 FL Tampa
 KBII 90.5 TX Bridgeport
 KAFX 95.5 TX Diboll
 WRDQ 96.9 GA Fitzgerald
 WRMF 97.9 FL W. Palm Beach

20 Es

1011 WAYG 89.1 FL Sarasota
 1015 WAYJ 88.7 FL Fort Myers
 1100 WXEL 90.7 FL W. Palm Beach
 WCMQ 92.3 FL Hialeah
 1117 WVFS 89.7 FL Tallahassee, 270 w.

July 20th Es cont.

WWNO 89.9 LA New Orleans	1100
250 1125 WMFE 90.7 FL Orlando, c	1150
1147 WUSE 89.7 FL Tampa, c	1150
275 1200 WRBQ 104.7 FL Tampa	1150
307 1213 WQIK 99.1 FL Jacksonville	
240 1215 WROO 107.3 FL Jacksonville	
307 2200 KEOM 88.5 TX Mesquite	1200
WWOZ 90.7 LA New Orleans	
WSEB 91.3 FL Englewood	

21 Tr

1400 WIAA 88.7 MI Interlochen, c	305
2300 WPHN 90.5 MI Gaylord, g	250
307 2336 WKPK 106.7 MI Gaylord, r	250
380 2348 CBCE 97.5 ON Little Current	150
307 2347 WKZ 98.9 MI Petoskey	270

22 Tr

0001 WUPS 98.5 MI Houghton Lake	250
0115 CKMF 94.3 PQ Montreal, d	307
1000 1900 WBNI 89.1 IN Fort Wayne, c	360
1000 2350 WKAR 90.5 MI East Lansing, c	275
1300 2352 WGLE 90.7 OH Lima	340

23 Tr + MS

1170 1800 WBNI 89.1 IN Fort Wayne	360
<u>24 MS + Tr</u>	
0114 CHIQ 94.3 MB Winnipeg, MS	885
2200 WNIR 100.1 OH Kent, talk	240
2200 WKSU 89.7 OH Kent, c	240
WQTL 106.3 OH Ottawa, r	325

26 Tr

1200 0242 WNIR 100.1 OH Kent, talk	240
1200 1341 WIAA 88.7 MI Interlochen, c	305
1200 1812 WBRY 98.9 OH Van Wert	350
1200 1818 WOYE 98.9 MI Vassar	
1200 1832 WIFF 102.3 IN Auburn	345
1200 2206 WPOS 102.3 OH Holland	285
1200 2240 WFRN 104.7 IN Elkhart	380

27 Tr

0333 WIAA 88.7 MI Interlocken	305
2235 WCPZ 102.7 OH Sandusky, r	
<u>28 Tr</u>	
1842 WPOS 102.3 OH Holland, g	285
1843 WFRO 99.1 OH Fremont, r	275

29 Tr

0135 CKMF 94.3 PQ Montreal, d	307
1830 WHKO 99.1 OH Dayton, k	380
1010 1835 WBNI 89.1 IN Fort Wayne, c	310
1060 1838 WBRY 98.9 OH Van Wert, r	350
1080 2338 WDK 102.1 OH Cleveland	
1100 2400 WSWR 100.1 OH Shelby	

30 Tr

0013 WCPN 90.3 OH Cleveland, j	233
1150 2100 WSWR 100.1 OH Shelby	
1210 WGER 106.3 MI Saginaw	
1210 WNWN 98.5 MI Coldwater, k	

AUGUST 1994 DX1 Tr

1200 1600 WNNW 98.5 MI Coldwater, k	
1250 1602 WUPS 98.5 MI Houghton Lake, r	260
1230 WBZX 99.7 OH Columbus, r	340
1295 WMXX 107.7 OH Dayton, r	380

MORE OF MIKE'S DX TO COME....

Mike LaRoque's report continues.

AUGUST 1st Tr cont

2245 WHST 107.3 MI Tawas City
 2309 CJQM 104.3 ON Sault Ste Marie, k 280
 2314 WGFM 105.1 MI Cheboygan
 2330 CBCU 89.9 ON Chapleau, CBC, apparently
 this station radiates only 350 watts 310
 2330 CBCE 97.5 ON Little Current // above 150
 2347 WMKC 102.9 MI St. Ignace, KC Country
 2356 WCEN 94.5 MI Mt. Pleasant

2 Super Tr

0012 WCMZ 98.3 MI Sault Ste Marie
 2219 WMYX 99.1 WI Milwaukee, r 420
 2310 WMBI 90.1 IL Chicago, g 425
 2310 WNIR 100.1 OH Kent, talk
 2340 WTRK 89.1 MI Bay City, g 220

3 Super Tr

0000 WUWM 89.7 WI Milwaukee, talk 420
 0003 WHAD 90.7 WI Delafield 432
 0042 WKJF 92.9 MI Cadillac, r, in spite
 of local CHAY 93.1
 0043 WKQZ 93.3 MI Midland
 0050 WKCQ 98.1 MI Saginaw, k
 0108 WLEW 102.1 MI Bad Axe, r
 0223 WKLZ 98.9 MI Petoskey,
 0239 WGEE 99.7 WI Sturgeon Bay, k
 0254 WIXX 101.1 WI Green Bay, r
 0309 WCMZ 98.3 MI Sault Ste Marie, CMU
 0323 WIAA 88.7 MI Interlochen, c
 0400 WBLV 90.3 MI Twin Lake, c
 0410 WQRS 105.1 MI Detroit, c
 0500 WPNE 89.3 WI Green Bay
 0630 WNUR 89.3 IL Evanston, j
 1114 WBCH 100.1 MI Hastings, r
 1120 WLDR 101.9 MI Traverse City,
 1127 WMUS 106.9 MI Muskegon
 2222 WAUS 90.7 MI Berrien Spgs, c
 1145 WCuz 101.3 MI Grand Rapids, k
 2222 WBRN 100.9 MI Big Rapids
 1203 WPSX 102.3 MI Big Rapids, r
 2217 CJMM 99.1 PQ Rouyn Noranda, d
 2219 CJMV 102.7 PQ Val-d'Or, d

AUGUST 4 Tr

0120 CKOI 96.9 PQ Verdun, d 307
 0125 CKMF 94.3 PQ Montreal, d 307
 0132 CISM 89.3 PQ Montreal, FF 307
 2257 CJQM 104.3 ON Sault Ste Marie 280

7 Tr

2140 WKLZ 98.9 MI Petoskey 265
 2150 CJQM 104.3 ON Sault Ste Marie 280
 2200 WIAA 88.7 MI Interlochen, c 305

8 Tr

0021 WMYX 99.1 WI Milwaukee, r 420
 0122 WHKO 99.1 OH Dayton, k 385
 WMGG 99.7 ON Columbus 350
 0203 WAAL 99.1 NY Binghamton, r 250

9 Super Tr

2245 WIAA 88.7 MI Interlocken, c 305
 WILL 90.9 IL Urbana, c 520
 WKUE 90.9 KY Elizabethtown, c 565

10 Super Tr

1900 WGLE 90.7 OH Lima, c 340
 2327 WHCM 99.1 WV Parkersburg, k 360
 2340 WSIP 98.9 KY Paintsville, k 487

11 Super Tr

0036 WHKO 99.1 OH Dayton, k 385
 0100 WEKU 90.9 KY Richmond, c 520
 0200 WFPK 91.9 KY Louisville 520
 0209 WKJK 98.9 IN Salem, k, KJ-98.9 510
 0226 WMMX 107.7 OH Dayton 385
 0300 WGUC 90.9 OH Cincinnati, c 440
 0400 WEKH 90.9 KY Hazard, c 528

13 Es

1922 KMHA 91.3 ND New Town

18 Tr

0001 CKOI 96.9 PQ Verdun 307
 0122 CKMF 94.3 PQ Montreal 307
 0122 CITE 107.3 PQ Montreal 307
 0122 CITE1 102.7 PQ Sherbrooke 380
 2122 WBNI 89.1 IN Fort Wayne, c 360
 2156 WHKO 99.1 OH Dayton, k 380
 2200 WEMU 89.1 MI Ypsilanti, j 260

19 Es

1900 WYPL 89.3 TN Memphis 840

I very much enjoy DXing FM. It's a big challenge sometimes, and I seek to discover means of extending my average tropo DXing range, too. Thank you Saul for helping me on some of those ID's. I need more up to date data. Happy DXing. (Thanks for reporting, Mike! We hope to hear from you again in the future!-gc)

RICHARD CONTONE - 162-07 87th ST. - JAMAICA, NEW YORK 11414

Antenna: Firestar 3' Solid Mobile Antenna, MFS-946 SW Antenna Tuner on Bypass split with the Archer Color Eagle II in series with a VHF notch filter. Archer FM amp.

SEPTEMBER 1994 DX

11 Es
 2300 WCMT 101.7 TN Martin, impossible noise
16 Tr
 2145 WFMV 106.3 NJ Blairstown
17 Tr
 2100 WVCS 91.9 PA California, rock mix, sounds
 like they have power problems



5500 Main Street
 Williamsville, NY 14221

RALPH STROBEL - 106 E. DAVIDSON STREET - MUNCIE, INDIANA 47303

Equipment: McIntosh MR-78 FM Tuner with two CM Stereo Probe 9 antennas and rotors at 38 and 36 feet above ground separated at 23 feet, with use of Bolin phase box.

*Denotes use of phase box.

August 1994 (CDT)

<u>6 tr</u>		<u>25 MS</u>		
2120 <u>KKSI</u> 101.5 IA Eddyville, o\$, "Kiss-FM,"	386	0008 <u>KCCY</u> 96.9 CO Pueblo, Previous Es		1038
many ads, address		2340 <u>KCCY</u> 96.9 CO Pueblo		1038
<u>7 tr</u>		28 tr		
0000 <u>KIAQ</u> 96.9 IA Clarion, k\$	467	2315 <u>KBEQ</u> 104.3 MO Kansas City, k\$	495	
0018 <u>KXIA</u> 101.1 IA Marshalltown, k\$	413	2336 <u>KKCJ</u> 106.5 MO Liberty-	484	
0038 <u>KRXL</u> 94.5 MO Kirksville, op\$	380	"CJ-106" Kansas City, k\$		
0102 <u>KKEZ</u> 94.5 IA Fort Dodge, r\$	483	(o/WLSN 106.5 OH Greenville)	40	
(WLRW 94.5 IL Champaign, off air)	151	<u>29 tr</u>		
0158* <u>KOKZ</u> 105.7 IA Waterloo, r\$	397	0001 <u>KPRS</u> 103.3 MO Kansas City, s\$	495	
(o/WLTC 105.7 IN Indy)	50	(o/WRZX 103.3 IN Indy)	50	
0303 <u>KRES</u> 104.7 MO Moberly, k\$	378	0130 <u>KMZU</u> 100.7 MO Carrollton, k\$	435	
<u>8 tr</u>		0145 <u>KFMZ</u> 98.3 MO Columbia, rp\$	380	
0700* <u>WSAE</u> 106.9 MI Spring Arbor, g\$	146	0150 <u>KCFX</u> 101.1 MO Harrisonville-	490	
ex-89.3 (very much wanted!)		Kansas City, rp\$		
(o/WMRI 106.9 IN Marion)	29	0205 <u>KARO</u> 101.5 MO Columbia, r\$	380	
<u>9 tr</u>		0250 <u>KJMO</u> 100.1 MO Jeff City, r\$	378	
0004 <u>KDLO</u> 96.9 SD Watertown, wx, k\$	680	2008* <u>KASU</u> 91.9 AR Jonesboro, j\$	417	
0140 <u>KUDO</u> 103.9 IA Spirit Lake, r\$	548	(o/WFPL 91.9 KY Louisville)	134	
0500 <u>KNSR</u> 88.9 MN Collegeville-St. Joseph, nx mono	589	2019 <u>KKLR</u> 94.5 MO Poplar Bluff, k\$	360	
1400 <u>KYSM</u> 103.5 MN Mankato, k\$	521	2031* <u>KJEZ</u> 95.5 MO Poplar Bluff, r\$	360	
<u>14 MS</u>		(o/WFMS 95.5 IN Indy)	50	
1300 <u>KMPR</u> 88.9 ND Minot	965	<u>30 tr</u>		
<u>17 tr</u>		1100 <u>WCSD</u> 95.9 TN Livingston-Cookeville-Sparta-Gainesboro	263	
0344 <u>WKRJ</u> 91.5 OH New Philadelphia, (ID's for all three KSU FMs)	208	<u>September 1994</u>		
c\$		<u>21 tr</u>		
<u>18 tr</u>		1000 <u>WTHD</u> 105.5 IN Lagrange-MI Sturgis, k\$	101	
2130 <u>WQKO</u> 91.9 IN Howe, gr\$	106	"Thunder Country-105.5"		
<u>19 Es</u>		<u>27 MS</u>		
1806 C??? 95.3 PQ Matane ?	1064	?? KETR 88.9 TX Commerce	754	
<u>22 tr</u>		<u>28 tr</u>		
1000 <u>WCYT</u> 91.1 IN Lafayette Township-Fort Wayne, o\$	55	0200 <u>WWGN</u> 88.9 IL Ottawa-LaSalle-Peru, g\$, MBN	199	
<u>24 tr</u>		<u>29 MS</u>		
0148 <u>WKHM</u> 105.3 MI Brooklyn-Jackson, ads, b\$	140	0000 KETR 88.9 TX Commerce	754	

Meteor Scatter Results:

8/14 KMPR "...This is Prairie Public Radio 89.5...90.5 in Bismarck on KCMD--88.9."
8/25 KCCY "...and now...76 in Colorado Springs..."
KCCY "...The Gambler - Highway 50 West, Purcell Boulevard in Pueblo..."
9/27 KETR "...and sunny on Thursday a little bit cooler, high 85 to 90. For the Sulphur area...88.9 KETR. Programing on KETR is partially under-written in part by Sulphur Springs State Bank, featuring checks plus which allows you to write yourself a loan..."
9/29 KETR "...KETR Commerce, Texas..."

In early May I was in my hometown of Coeur d'Alene, Idaho. On May 7 I was oboe soloist with the North Idaho Symphony Orchestra. I spent one afternoon taping FM ID's from North Idaho and Eastern Washington. With poor equipment and no outside antenna 94.1 KCLK WA Clarkston-Lewiston ID was a powerhouse at about 90 miles!

Last August 8-13 when I had to be at IU in Bloomington, I'm told tr was simply great. One DXer from Edinburg, IN was getting Philadelphia stations at over 600 miles. Distant stations were wiping out Indy locals. I miss the big ones!

WWGN on 88.9 usually ID's as Ottawa-LaSalle-Peru, but have also heard them ID as Ottawa-Odell-Metamora and Ottawa-Mendota-Sandwich. Not a good September for DX.

73 - Ralph

WELCOME NEW REPORTER!!

GARY SIEGEL - 2955 115TH STREET - TOLEDO, OHIO 43611

Equipment: Panasonic RF-2200 & 1988 Buick Regal Motorola AM stereo/FM Stereo

JUNE 28, 1994 E-skip

1200 KVIC 95.1 TX Victoria
 1210 KPLV 93.3 TX Port Lavaca
 1220 KAGG 96.1 TX Madisonville
 1230 KIXS 107.9 TX Victoria
 1235 KTBQ 107.7 TX Nacogdoches
 1245 KLUB 106.9 TX Bloomington
 1250 KOOI 106.5 TX Jacksonville
 1300 KACU 89.7 TX Abilene
 1305 KRIQ 94.1 TX Floresville
 1310 KUEZ 99.3 TX Luftkin

AUGUST 10 Tropo

2005 WHMS 97.5 IL Champaign
 2103 WRBI 103.9 IN Batesvilles, Reds BB, when they used to play the game
 2115 WPAY 104.1 OH Portsmouth
 2130 WEBN 102.7 OH Cincinnati
 2150 WUBE 105.1 OH Cincinnati
 2205 WSRW 106.7 MI Hillsboro, w/Reds BB
 2215 WTPY 107.9 IN Indianapolis



The June 28 opening was noteworthy by its strength and the fact that it went all the way to the top of the FM. Several of these in the 1230-1300 time frame heard while I was in transit on the car on I-75 in North Toledo. Unid ES from TX on 100.3 noted at 1320 on June 28 with country, any ideas? (There are three different TX stations with CW on that freq-KILT, KOMX, and KTEX-gc). The August 10th opening was one of the best Tropo openings noted in some time-ranged from Bristol, Tenn. on 96.9 to hazard, Ky. on 101.1 to Chicago on 93.9 & 97.1 to SW Ohio, SE Indiana, E Illinois, then to NE Ohio. *New station now on in Toledo area as of 9/15/94, WBUZ 106.5 Delta, OH, with hard album rock. Just what we need: a new drop-in. This is the 6th FM channel lost in the past 2 years! ID slogan is "Buzz 106.5". I don't have mileage figures on my catches. Sorry about that but don't have that info at my disposal (That is okay, Gary. But if you are interested in that type of information, contact TV/FM states editor Fred Nordquist. I believe he is still selling distance printouts to each US & Canadian city of license (and other N. American stations as well), if you send him your geog. co-ordinates, for \$2. It is well worth it, in my opinion-gc). Hope to report more often. 73. (Welcome to NFMDX, Gary! We hope to hear from you again!-gc)

SAUL CHERNOS - 57 BERKELEY ST. - TORONTO, ONTARIO M5A 2W5

(416) 364-0725

e-mail: chernos@web.apc.org

August 11 Tr (Toronto at Scarborough Bluffs, then west end of Toronto)

0225 CKBY 105.3 ON Ottawa k (some others in too)
 0231 WKBN 98.9 OH Youngstown
 0232 unID 101.3 - Home of America's best country
 0235 WEGR 107.5 WV Wheeling ,Eagle 107, pr
 0302 WVAQ101.9 WV Morgantown , ps
 0334 unID 101.7 Real Country
 0418 CHRW 94.7 ON London , Radio Western,
 oWFGO Erie

August 11 Es (Toronto at Bluffs)

1301 WKGC 90.7 FL Panama City
 1302 WJWV 90.9 GA Fort Gaines
 1313 WMTQ 93.5 FL Port St. Joe mr
 1314 unID - 91.7 GA GA Public Radio 800-654- XXXX
 (Valdosta or Albany-gc)
 1343 WEBZ 99.3 FL Mexico Beach
 The Breeze, b

August 15 Tr (Toronto)

2301 WNFR 90.7 MI Sandusky g

August 16 MS (Burnt River)

2055 unID 99.1 Shields at River Hills Hill

August 16 Tr (Burnt River)

2301 WEZO 93.3 NY Avon Easy 93.3

2330 CBON28 91.9 ON Chapple FF CBC not //690

August 17 Tr (Burnt River)

0545 WNFR 90.7 MI Sandusky g

0556 CHUO 89.1 ON Ottawa very strong, other Ottawas

0557 CHIP 101.7 PQ Ft Coulonge , FF (EE later in day)

0640 CBF-9 91.9 PQ Mt Laurier FF // 690 but others

0644 CHGA 97.3 PQ Maniwaki FF

0655 CJBC 94.3 ON Belleville FF CBC

August 25 Tr (Toronto)

0600 WNFR 90.7 MI Sandusky USA Radio News, g

0619 WKYE 95.5 PA Johnstown , Key 95

0626 WKYK104.9 OH Geneva k

0701 CKSY 95.1 ON Chatham

2054 unID 99.3 Interlocken/ing



SAUL CHERNOS' report continues.

August 26 SuperTropo (Toronto)

0000 WRDR104.9 **NJ** Egg Harbor City big band,
new state

0003 WKXW 101.5 NJ Trenton, New Jersey 101.5

0007 WGYY 101.3 PA Scranton ,Froggy 101, k

0010 WSCP 101.7 NY Pulaski

0022 WHTZ 100.3 NJ Newark, Z-100

September 4 Tr (Coldwater)

2115 CB 89.9 ON Parry Sound
50 watts, //91.5 CBCO

September 20 Tr (Burnt River)

0840 CKQB 106.9 ON Ottawa,pr The Bear, from 540-AM

September 20 Tr (Toronto)

1025 WHEN107.9 NY Syracuse k Hit Country 108 a/CING

1038 WMHI 94.7 NY Cape Vincent g

1047 WOUR 96.9 NY Utica

1050 WXUR- 92.7 "Oldies...92.7 FM" Herkimer?

1119 WSCP101.7 NY Pulaski

September 22 (Scarborough Bluffs)

0155 WBIG 100.3 DC Washington , Oldies 100

0156 WZBH 93.5 **DE** Georgetown The Beach r

0200 WFHS 99.1 MD Annapolis HFS rp

0203 WERQ 92.3 MD Baltimore 92Q s

0220 WYSN101.7 PA Central City Sunny m

0227 WKYE 95.5 PA Johnstown The Key rp

0230 WAMU 88.5 DC Washington phone-in/talk

Sept. 22nd Trop cont.

0245 WCXR105.9 **VA** Woodbridge ,pr

0254 WQNY103.7 NY Ithaca The Wave (new slogan)

0256 WQKK 99.1 PA Ebensburg,Quickrock rp

0257 WHPA104.9 PA Hollidaysburg

0320 WRDR104.9 NJ Egg Harbor City bm

0329 WHGL100.3 PA Canton Wiggle 100 k

0337 WBYN107.5 PA Boyertown g

0340 WVES 99.3 VA Accomac Hot Country 99.3 FM

0350 WJQZ 93.5 NY Wellsville

0400 WAVA105.1 VA Arlington

0405 WKRE107.5 VA Exmore My 107

0418 WMZQ 98.7 DC Washington k

0430 WJFK 106.7 VA Manassas

0500 WETA 90.9 DC Washington c

0507 WKKY104.9 OH Geneva k

0505 WWDC101.1DC Washington DC 101 rp

0518 WDCU 90.1 DC Washington

WDCU FM Wash Jazz 90

0543 WZKZ106.1 NY Coming Wink 106 (new slogan)

0635 CIMX 88.7 ON Windsor pr Modern Rock 89X

0703 WCKR 92.1 NY Hornell

0710 WNGZ104.9 NY Montour Falls, Wings 105

September 25 Tr (east Scarborough)

0946 CKQB 106.9 ON Ottawa The Bear pr ex- 540 CJSB

Sept 22 supertropo was wild, netting VA, DE and MD as new states in Toronto. Started and ended rather abruptly, with minor Lake Ontario trop beforehand and afterwards. Missed the best of the Aug 10-11 Tr. Mike Laroque in Barrie ON got well into KY on FM, as well as a bit of Cincinnati, WV and IN. A little Es mixed in, though I missed the TX stuff the evening of Aug 10. The Aug 26 supertropo was very short lived but netted NJ for first time. Thanks Greg Coniglio for tip, got to the Scarborough Bluffs in the nick of time. CHIP in PQ moved awhile ago from 101.5, where I had logged it, so it's nice to get the new one on 101.7. I heard French in the early morning and English in late afternoon. Coldwater is a 20 minute drive west of Orillia, and you could see Georgian Bay (Lake Huron) from the hill I was on in my car Sept. 4. Still waiting for that biggie Fall tropo opening, the kind that lasts for daze 'n' dazel! 73's, Saul

BOB SMOLAREK - 31 MARK DRIVE - HIGH BRIDGE, NEW JERSEY 08829

June 1994 DX26 Es

1134 KGLS 93.1 KS Pratt,k
1144 KOEZ 92.3 KS Newton,b
1219 WLVE 93.9 FL Miami Beach,j
1226 WKSJ 94.9 AL Mobile,k
1235 WZTA 94.9 FL Miami Beach,op
1300 WXRG 96.7MS Gulfport,pr
1319 WKRY 93.5 FL Key West,j
1319 WJBX 99.3 FL Fort Myers Beach,op
1927 WGMX 94.3 FL Marathon,rm

27 Es-Heard in Morristown,NJ

1200 KKMI 93.5 IA Burlington,r
1201 KTRX 93.5MO Tarkio,k
1205 KBOE 104.9 IA Oskaloosa,k
1207 KITR 101.3 IA Creston,k,
"Creston Radio"
1212 KAHR 96.7MO Poplar Bluff,o
1216 KNCY 97.7 NE Nebraska City,rm
1219 KEZG 107.3 NE Lincoln,rm,

June 27th Es cont.

"New Easy 107"

1222 WRMJ 102.3 IL Aledo,k,"J-102"

1225 KRNA 94.1 IA Iowa City,pr

1228 KKGO 94.9 IA Des Moines,pr

1230 KQKQ 98.5 IA Council Bluffs ,r,"Sweet 98"

1233 KKRL 93.7 IA Carroll,r

1234 KKOT 93.5 NE Columbus,k,"Coyote Country"
Back Home

2200 WUWF 88.1 FL Pensacola,c

2205 WJXR 92.1 FL Macclenny,Tradio



*Bob Smolarek's report continues.*July 1994 DX

9 Es
 128 WDEF 92.3 TN Chattanooga,rm
0 Es
 950 WIKX 92.9 FL PuntaGorda,k,"KIX Country"
 000 WCKW 92.3 LA Laplace,lp
 043 WLUN 95.3 MS Lumberton,k
 051 WRBA 95.9 FL Springfield,r
 115 WBBN 95.9 MS Taylorsville,k,"B-95
 Pine Belt Country"
 121 KQVI 95.3 LA Bayou Vista,k
 123 KFXY 96.7 LA Morgan City,rm,
 "Y-96"
 132 KQID 93.1 LA Alexandria,r
 135 WOOF 99.7 AL Dothan,r
 138 KMDL 97.3 LA Kaplan,k
 209 WEZB 97.1 LA New Orleans,r
 210 KIOX 96.9 TX El Campo,k,"X-97" lots of
 reverb!
 215 KMPQ 104.9 TX Rosenberg,
 spanish,"Radio Impacto
 238 KKBQ 92.9 TX Pasadena,k



The trop opening on August 10-11 was truly a classic, I never got so many stations in the 400-600 distance before, also in a direction that seldom comes in, it was freaky to say the least. WKEE 100.5 was blasting in, I checked 107.9 and sure enough WEMM was in. Thanks to Greg for ID'ing 93.7 in Seymour Indiana and to Joe Fela, Bill Nienajadly, and Rich Shafton for the DX Alert phone calls.

MIKE CHERRY (VE7SKA) - BOX 631 - GANGES, BRITISH COLUMBIA V0S 1E0

Home equipment: Sansui SX-1070 receiver, Toshiba SA-500 analog receiver w/180 khz IF (1973 vintage), Channel Master rabbit ears with tune sw. Antennas: Lindsay GFM-10 el. FM beam @ 35' AGL, Alliance U-110 rotor, Magnum Sleuth bandpass/pre-amp (indoor) Mobile: Toyota FM stereo receiver w/ 180 khz IF. Mobile loggings indicated. PDT used.

MAY 1994 DX

0 MS
 0723 KZRT 102.9 ID 8 secs. T.Falls ment 641

19 Tr
 2257 CBUE 101.7 BC mono // AM 690 101

JUNE 1994 DX

17 Es
 1720 KNAU 88.7 AZ \$, coming events 1137
 1726 KAHM 102.1 AZ wx update, ads 1142
 1730 KFLR 90.3 AZ relig\$ o/KCMU 1223
 1730 KJZZ 91.5 AZ \$, promos & calls 1223
 1735 KNAI 88.3 AZ or KPHF? ment Phx 1223
 1736 KOOL 94.5 AZ o\$\$, faithful regular! 1223
 1744 KMLEt 107.9 AZ k\$, only 2 minutes 1223
 1746 KKLT 98.7 AZ ads, traffic 1223
 1752 KCFY 88.1 AZ calls, \$ 1179
 1754 KNLB 91.1 AZ local mentions
 1756 KVVA 107.1 AZ Viva 107, \$
 1759 KJTA 88.9 AZ legal ID

August 1994 DX10 Tr-MassiveTrop!

2155 WKXA 100.5 OH Findlay,r 456
 2205 WSHW 99.7 IN Frankfort,r,"Shine 99" 605
 2220 WBZX 99.7 OH Columbus,lp,"The Blitz" 432
 2230 WIKI 95.3 KY Carrollton,k 566
 2245 WDJX 99.7 KY Louisville,r 605
 2300 WTFX 100.5 KY Louisville,lp 592
 2316 WKEE 100.5 WV Huntington,r,
 coming in strong! 434
 2325 WCWV 92.9 WV Summersville,
 rp,"C-93" lousy audio 346
 2330 WEMM 107.9 WV Huntington,g 421
 2340 WUGO 102.3 KY Grayson,r,"U-102" 461
 2358 WPFB 105.9 OH Middleton,k, "Rebel" 507

11 Tr

0026 WKKW 106.5 WV Clarksburg 317
 0043 WYSN 101.7 PA Central City,m 213
 0052 WGTZ 92.9 OH Eaton,"Z-93" 505
 0100 WQKC 93.7 IN Seymour,k,
 "Q-FunCountry" 610
 0102 WWYC 100.1 KY Winchester,k,
 "Country" "Young 534
 0107 WVLK 92.9 KY Lexington,
 k,"K-93", prev Es 540

19 Es

1940 KSNP 95.3 KS Burlington,k
 1945 KMUW 89.1 KS Wichita,c

June 27 Es

1859 XHSOL 98.9 BCBN legal ID, \$ 1197
 1900 KUBO 88.7 CA legal ID, \$, NPR nx
 1901 XHJC 91.5 BCBN legal ID\$ 1197
 0211 XEWV 106.7 BCBN \$ads, ranchera mx 1197
 0219 KWST 94.5 CA \$, K-west (regular)
 0226 KXO 107.5 CA local mentions
 0230 XHVG 103.3 BCBN lega ID 1197
 0234 KCFY 88.1 AZ religion 1179

JULY 1994 DX

5 Es
 1814 KHCC 90.1 KS c\$ mx, annrcmts
 1817 KZSN 102.1 KS k\$, Kissin' FM 102
 1823 KZXL 107.9 KS , Z108, CHR mx\$ 1420
 1828 KZNA 90.5 KS calls, \$, // 91.1
 1828 KANZ 91.1 KS // 90.5 (both regulars) 1362
 1830 KFXX 106.7 KS k music
 1834 KSCL 94.5 KS sports, ads
 1838 KHAZ 99.5 KS promo for k concert 1408
 1844 KHUT 102.9 KS Local mentions

Mike Cherry's report continues.

July 10, 1994 Es

1839 KPBS 89.5 CA calls, All Things...
 1844 XHTIM 91.7 BCN calls, latin MOR
 1851 {KCLX} 102.9 CA ads, op\$
 1856 KIOZ 102.1 CA K102, wx, \$
 1859 KPKF 90.7 CA legal ID, \$
 1900 KCRW 88.9 CA jazz, calls\$, finally!
 1900 {KACD} 103.1 CA callsw/KBCD, CD103
 1908 KIKF 94.3 CA 94 Kick FM, k
 1915 KKLA 99.5 CA religion
 1923 KUSC 91.5 CA c concert, \$, ID
 1928 KFSG 96.3 CA religion, calls
 1930 KUCR 88.3 CA \$, calls, c mx
 1934 XETRA 91.1 BCN \$, 91-X, rock
 1936 KSDS 88.3 CA ID\$, jazz (nice stn!)
 1940 KTWV 94.7 CA The Wave, rj, \$
 1946 XHITZ 90.3 BCN Pepsi ad, X-Hits, \$
 1955 KBAX 107.1 CA pogr, promo w/calls
 1959 XHFG 107.9 BCN legal ID\$
 2000 XHTY 94.5 BCN legal ID\$, rancheras
 2000 XHITI 88.7 BCN ID, weak, LPFM!!!
 2008 KWVE 107.9 CA K-Wave, mg mx, \$
 2016 KKGO 105.1 CA c\$ mx, calls
 2022 KLON 88.1 CA \$, blues show
 2030 XHBCN 99.7 BCN \$, legal ID, ad
 2036 KJLH 102.3 CA wx, ads
 2042 {KYSR} 98.7 CA rm mx, Star 98.7

13 Es

1647 CHIQ 94.3 MB \$, Chick FM, CHR
 1655 CKSB8 99.5 MB CBC French, mono
 1659 CKLU 103.1 MB calls
 1700 CBW 98.3 MB CBC Stereo\$, news
 1832 KCCD 90.3 MN ID, talk
 1839 KPRJ 91.5 ND progr. promos
 1930 KTLF 90.5 CO ID, religious talk
 1930 KUNC 91.5 CO c, concert, ID\$
 1937 KPNE 91.7 NE ID, progr. promo

16 Tr (mobile = Vancouver: Pt. Grey bluffs)

2023 KBPS 89.9 OR c\$ mx, Id, promos
 2030 KBOO 90.7 OR over semi local KSER
 2041 KHPE 107.9 OR mg mx, K-Happy
 2044 KKEE 94.3 WA very strong, o\$ mx
 2047 KDUX 104.7 WA ads\$, rp
 2050 KUPS 90.1 WA rare, \$, modern rock
 2057 KFFM 107.3 WA CHR mx, calls, \$
 2059 KOPB 91.5 OR calls, promos, \$
 2100 KMHD 89.1 OR ID, Bluestage NPR, \$
 2100 KXYQ 105.1 OR ID, CHR, reg. TrS, \$
 2114 K201-- 88.1 WA (KPLU 88.5), \$, 10 watts, back on air

2125 {KKJZ} 106.7 OR Smooth Jazz 106.7, \$

17 Tr

0825 Pirate 88.9 BC Radio Void, rp mx, mobile ?
 0829 KWAX 91.1 OR, ID\$, choral mx
 0830 KLCC 89.7 OR Wknd Edition, ID\$
 0840 KATS 94.5 WA Yakima, lcl wx, ads\$
 0846 KFFM 107.3 WA CHR&, local ads\$
 0853 KGRG 89.9 WA alt. rock calls
 0859 KAGS 90.5 WA church service, ID\$
 0900 KBVM 88.3 OR ID, Spanish relig, \$
 0900 tropo: Portland FMs 88.3, 89.1, 91.5, 106.7
 0937 KLYK 105.5 WA wk, ads (Pt. Grey)

AUGUST 1994 DX

1152 1 TrS (DX: Radar Hill @ 400' ASL - Long Beach, BC, west coast of Vancouver Is.)
 1177 1148 KYTT 98.7 OR weak ID, K-Lite, g
 1152 1157 KYTE 102.7 OR over loc. xltr CIWC
 1047 1645 unID 95.1 new KSND? kr mx
 1032 1652 KMUZ 94.7 WA still b, K-Music
 1748 KID 96.1 ID 12 sec. lcl mention (MS)
2 Tr (Radar Hill)
 1047 0700-0900 Portland, Seattle, WA coast FMs
 1047 0823 KKSF 103.7 CA heard often, \$, occas.
 1046 also heard on 0834, 0918 (MS)
 0845 KGHO 95.3 WA now mono, relig. ID
 0922 KHAP 89.1 CA (MS), 9 sec. ment Chico
 0935 KAQS 89.3 WA Chaos\$, modern p
 0940 KSHL 97.5 OR K-Shell, k mx \$
 1177 0947 KLCC 89.7 OR jazz\$, // KLCO 90.5
 0959 KWAX 91.1 OR, legal ID \$
 1017 KHPE 107.9 OR, K-Happy, mg mx
3 Tr (Radar Hill)
 1177 0813 KFMI 96.3 CA 6 sec. then 18 secs
 at 0850 with weak ID

1047 0855 KWAX 91.1 OR weak, lega ID
 1040 0858 {KODZ} 99.1 OR Oldies 99.1, \$, calls
 1177 0901 KSKD 107.1 OR K-Love, mg mx
 0924 KLYK 105.5 WA calls, rm mx
3 Tr (Campbell River, BC)
 1748 KCMU 90.3 WA modern p, calls
 1167 1759 KXXQ 96.1 WA legal ID, Mix 96 FM
 1056 1801 K217AY 91.5 WA (KPLU 88.5), 10w!\$
 1167 1842 KNHQ 89.5 WA C-89 FM, rs\$
 1167 1843 KVTI 90.9 WA I-91, CHR
 1853 KNLR 97.5 OR New Life FM, 16s (MS)
 1857 KMHD 89.1 OR jazz, legal ID
 1900 KBPS 89.9 OR ID, classical
 1906 KXL 95.5 OR local ads, wx\$
 1912 KWJJ 99.5 OR k Calendar, calls, \$
 1944 unID 89.7 ?? classical mx

4 Tr (Campbell River, BC)

0903 KLCC 89.7 OR 19 secs, w/partial ID
 0916 KUGS 89.3 WA calls, modern p
 0919 KAZ 91.7 WA calls, jazz, \$
 0947 KSER 90.7 WA ID and folk music
 0959 K213BA 90.5 WA (KUOW 94.9), NPR
 news, ID, \$, 10 watts

13 Tr (Pt. Grey)

2000-2145 Portland/Oregon regulars strong
 2033 KKEE 94.3 WA o mx, reg tropo
 2040 KDUX 104.7 WA rp, reg. tropo

14 Tr (Pt. Grey)

0752 KATS 94.5 WA rp&, \$, calls
 0756 KFFM 107.3 WA CHR&, \$, calls
 0757 KFRC 99.7 CA (MS), also 0812, others
 0800 KLYK 105.5 WA ID, news, sp, wx
 0826 KQBE 103.1 WA Cube, finally!
 0837 KPQ 102.1 WA Q102, o/CBUF1
 0844 KUNR 88.7 NV (MS), intro to c mx
 0854 KWJJ 99.5 OR k count, & k
 0905 KWAX 91.1 OR NPR nx, ID choral
 0914 KQFE 88.9 OR g mx, lcl mention
 0928 KODZ 99.1 OR ID often, RARE!
21 MS
 0739 KUER 90.1 UT, 7 sec., prev Es

Mike Cherry's comments:

1994 has been a poor-to-average season here in the Pacific Northwest. I finally got my FM beam up in the air (Yeah, I know its taken me over a year since moving in to get it up!) Like the rest of North America, elevated MUF's occurred frequently resulting in a large amount of Es at FM and above. The Calif. to Hawaii tropo duct apparently opened in a major way July 10 & 11. I am unsure at this time if the LUF reached down to FM, but there were numerous contacts made on 144 Mhz (2 m). The Es opening here on July 10 to southwest Calif. produced stations on virtually every open frequency locally resulting in a very congested band! What a great opening! July 13 there may have been more E-skip on FM, but the long-haul condx out on the west coast of Vancouver Is. were disappointing this time, but the meteor bursts more than made up for it! I'll be returning to Long Beach and Radar Hill again in early October when tropo should improve. August 14 tropo from the Pt. Grey bluffs in Vancouver was definitely above-average. KODV 99.1 was bagged with adjacent CFOX 99.3 about 12 km away WITH THE TOWER VISIBLE! In local station news, KXRX 96.5 Seattle is now k, "Young Country" (strict), KMTR-FM 103.7 Tacoma shuffled its Sunday jazz show from eves to mornings. CKKQ "100.3 The Q" Victoria BC again adds jazz to its Sunday eve. schedule. KCRF 96.7 Lincoln City, Oregon appears to be off air. Numerous times it should have been heard (while at Long Beach) as all other north coast Oregon FMs were in. KYTT 98.7 Coos Bay, OR using K-Lite non ID along with calls (still religion). I hope everyone had a great summer! I'll report again in the fall. 73\$, Mike

MIKE BUGAJ - 69 SHERMAN ROAD - ENFIELD, CONNECTICUT 06082

Equipment: Carver TX-11 and Sherwood rx, (both IF modified), Probe 9 at 30 feet with rotor. New are underlined.

JULY 1994 DX**3 Es**

0945 WKSJ 94.9 AL Mobile
0945 WOOF 99.7 AL Dothan, Cntdown America

3 Tr

1030 WSSH 99.7 PA Pittsburgh
1037 WPMR 107.9 PA Tobyhanna
1250 WLTJ 92.9 PA Pittsburgh, Lite FM 92.9
1305 WDVE 102.5 PA Pittsburgh, classic rock
(first time heard in years)

3 Es

2000 KLVV 88.7 OK Ponca City, g, K-Love
2005 KXLS 99.7 OK Alva, hit radio KXLS
2010 KWOX 101.1 OK Woodward, K101 country
2032 KJKT 102.5 MO Joplin, Country Cat 102.5
(Yeah, Mike, these are the new calls-gc)

12 Es

1816 CIOZ 96.3 NF Marystown, "Oz FM"
(TV Crazy through ch6...FM was dead)

13 Es

1447 WMFQ 92.9 FL Ocala, Q-Lite 92
1452 WCTQ 92.1 FL Venice, Q92-FM
1502 WAYG 89.1 FL Sarasota, Way FM

14 Tr/Es

0930 WBHT 97.1 PA Mountaintop, "hot 97"
0950 WEZB 97.1 LA New Orleans
0953 KEGL 97.1 TX Fort Worth, The Eagle
0954 KLLI 95.9 TX Hooks, Thunder 95.9
0954 KOLL 94.9 AR Maumelle
0956 WDLT 98.3 AL Chickasaw, "Smooth
98.3", mentioned Mobile
1000 KALK 97.7 LA Winnfield
1002 WNOE 101.1 LA New Orleans
1008 WRR 101.1 TX Dallas, "Classical 101"
1035 WJMI 99.7 MS Jackson
1045 WQUE 93.3 LA New Orleans

July 14th E-skip

1049 WJDX	96.3 MS Jackson, "Mix 96"
1057 WZLQ	98.5 MS Tupelo
1102 WJXN	92.9 MS Utica
1118 <u>KSFN</u>	94.9 LA Coushatta, "Super Country"
1213 WRQI	95.1 NY S. Bristol, "Rock It 95"
1215 WXUR	92.7 NY Herkimer, talk about Utica
1808 KTGL	92.9 NE Beatrice, "Eagle 92.9"
1809 <u>KKEZ</u>	94.5 IA Ft. Dodge
1823 KILS	92.7 KS Minneapolis
1825 <u>KDNS</u>	94.1 KS Downs, Mitchell County fair in Beloit
1827 KSAJ	98.5 KS Abilene, "oldies 98.5"
1829 WFXB	101.1 IL E. St. Louis, "The Fox"
1835 KBBE	96.7 KS McPherson
1840 KTIS	98.5 MN Minneapolis, g
1842 WGEE	99.7 WI Sturgeon Bay, severe wx alrt
1844 WJMC	96.3 WI Rice Lake, k
1846 KTCZ	97.1 MN Minneapolis, "The Cities 97"
1850 KDOM	94.3 MN Windom
1854 KWOA	95.1 MN Worthington, "KO-95"
1856 <u>KLQL</u>	101.1 MN Luverne, "K101", "Tri- states best country"
1906 <u>WRJO</u>	94.5 WI Eagle River, k
1907 WSCD	92.9 MN Duluth, c
1915 KXLS	99.7 OK Alva
1917 <u>KIXQ</u>	93.9 MO Webb City, "Kicks 94 FM"
1932 KNID	96.9 OK Enid, k
1936 <u>KZBE</u>	95.5 MO Pleasant Hope, B95, r
1940 KWEN	95.5 OK Tulsa, K95 FM
1941 KBEZ	92.9 OK Tulsa
1944 KVOO	98.5 OK Tulsa



MIKE BUGAJ's report continues.

July 1994 DX24 Tr

2025 WQSR 105.7 MD Catonsville, oldies
 2037 WNBT 104.5 PA Wellsboro, rare here
 2038 WGMR 101.1 PA Tyrone
 2100 WHGL 100.3 PA Canton, k
 2101 WSSH 99.7 PA Pittsburgh
 2148 WDVE 102.5 PA Pittsburgh
 2151 WLTJ 92.9 PA Pittsburgh
 2210 WXCY 103.7 MD Havre de Grace,
 "Today's Best Country"

July 30 GW

0700 WPBX 88.3 NY Southampton, mentions moving here from wherever they were

SEPTEMBER 9, 1994 Tr

2152 WOWB 105.5 NY Little Falls, with WBEC phased out

(Mike, I may have figured out your "KXEY Paris/Seymour ID on 104.3". KBCN 104.3 Marshall, AR has a long list of stations simulcasting in a network, one of them KSEY 95.3 Paris, AR! Can't find a Seymour, but the rest seems to make sense!-gc)

Well, it was a great summer for Es. I logged about 60 new Es stations. Tropo was another story...not much of anything so far except Pittsburgh a couple of times. However, a major change here is a Bolin Phase Box. My TV antenna is off the roof, replaced with my old Finco FM-5 as a phase antenna. I love the nulls I am getting, and I predict Es through WTIC and WRCH next summer. I should have done this sooner. By the way, WKDY 102.5 has dropped k and now is "Kiss 102" and CHR. And WXBB 105.3 has dropped k for r. Good DX.

HARRY J. HAYES - 9 HENRY STREET - WILKES-BARRE, PENNSYLVANIA 18702

Equipment: GE Superradio w/110 khz filter, Radio Shack amp. at set, Jerrold 9 element FM yagi in attic.

SEPTEMBER 1994 DX21 Tr

2146 WROG 102.9 MD Cumberland, c/w mx 190
 2218 WDSY 107.9 PA Pittsburgh, c/w music strong at times, "Y108", ID 220
 2225 WDVE 102.5 PA Pittsburgh, quite strong with prog. RR and "DVE" IDs
 2237 WVTV 96.1 PA Pittsburgh, v/strong at times, o'WLEV w/"Pittsburgh After Dark"
 2234 WWSW 94.5 PA Pittsburgh, strongest one in with oldies "3WS", IDs

22 Tr

0000 WOMP 100.5 OH Bellaire, strong, soft RR "Bellaire-Wheeling" ID 270
 0010 WQKB 100.7 PA N.Kensington, weakish with c/w and QRM from WHUD-NY 210
 0023 WSRD 104.9 NY Johnstown, somewhat weak, ID by Tony Orlando of "Dawn" fame, Scranton off 145

Sept. 24 Tr

1435 <u>WOWB</u> 105.5 NY Little Falls, "WOW 105" ID with Kasey Kasem promo	140
1523 WGES 105.5 NY Oswego, Star 105	
25 Tr & MS	
1315 <u>WMCR</u> 106.3 NY Oneida, up fair at times w/tinney sound, AM-FM IDs	150
1410 <u>WKRL</u> 100.9 NY N.Syracuse, K-Rock	
1438 CJOJ 95.5 ON Belleville, assumed "OJ" ID and "The Best Blend"	
1559 <u>WUOM</u> 91.7 MI Ann Arbor, "...in Ann Arbor 91...." on MS burst	410
1559 <u>WSQC</u> 91.7 NY Oneonta, weak to fair with network ID	110



Not much activity at all noted in early September but the latter part of the month made up for it and ended this season nicely. 852 stations logged on FM now after 24 seasons. 34 new ones were added this season which is my most productive since 1982. Now I guess it's on to the AM band unless October is warm.

GREG CONIGLIO - 5100 GLENWOOD DRIVE - WILLIAMSVILLE, NEW YORK 14221

Equipment: Pioneer TX-9100 tuner modified with 150khz and 180 khz filters, CM Stereo Probe 9 FM antenna = 20' AGL, CAC11 & RG6 coax. Phasing: Jerrold 10 element TV antenna at = 25' AGL, rotatable, into "two capacitors in a phase box", and switchable rabbit ears both into a 0-10-20 db Radio Shack amp.

AUGUST 26, 1994 TrS

(WDCX 99.5 Buffalo off the air)

0104 WAWZ 99.1 NJ Zarepath, very strong, g\$ 271
 0807 WGAY 99.5 DC Washington, lcl traffic, call 295
 0807 WOKN 99.5 NY Southport, OK100, k\$ 115

SEPTEMBER 1994 DX12 Tr

0805 CKQB 106.9 ON Ottawa, rp\$, The Bear 224

19 GW

2200 W297AB 107.3 NY Williamsville, w/WNUC 107.7 just what I needed, hi 2

2200 W287AE 105.3 NY Buffalo, w/WNUC 107.7, #&\$!! 12

22 Tr

0740 WWMD 104.7 MD Hagerstown, b\$, V.strong 236

0815 WUBJ 88.1 NY Jamestown, // local WBFO 67



EDITED FOR THE WTFDA AND "VHF/UHF DIGEST"
BY TOM BRYANT, 849 TODD PREIS DRIVE, NASH-
VILLE, TN, 37221 - Phone/Fax (615) 646-2000

HIGH CHANNEL VHF STATIONS IN MONTANA AREN'T COMMON DX TARGETS...BUT THAT DOESN'T MAKE THEM ANY LESS INTERESTING THAN THEIR LOW CHANNEL PEERS. WTFDA MEMBER DAVID SHAPIRO SENT THIS CLEVER BIT ABOUT THE MOUNTAINTOP OPERATION OF MISSOULA'S KGVO-TV (13). IN LATER YEARS THE CALL WAS CHANGED TO KMSO-TV AND THE CITY'S FIRST TV STATION (a late-comer..signing on 7/1/1954) IS NOW KECI-TV.

KGVO-TV



*When
Missoula's
early-day
viewers saw
"snow" on
their
screens, it
was
probably the
real thing!*

by Charles G. Cromwell

"We" were a jack-of-all-trades crew of six (announcers, engineers, film personnel, video switchers) who left downtown Missoula each day at noon and headed for TV Mountain in hopes of reaching the studio transmitter in time for our late afternoon sign-on.

The daily journey was begun in a four-wheel-drive carryall (a workingman's station wagon) equipped with a blade for plowing snow. The first five or so miles of the trip were on U.S. Highway 10 with the blade raised because the blacktop was already plowed. The problem with that, however, was that the blade was then just high enough to block the flow of air through the radiator, which caused the engine to overheat. So those first five miles always included at least two stops to throw roadside snow onto radiator and engine to cool them off so our journey could continue.

The carryall then attacked a country lane that gradually gained elevation before becoming the abruptly steep road up TV Mountain. Several miles short of the top, however, our vehicle often could not finish the climb because of the dual burden of

Winter this year brought with it a special nostalgia for me because it coincided with the anniversary of my thirtieth year in communications and served to remind me of my first winter in television at KGVO-TV (now KECI-TV) in Missoula, in 1954.

Missoula, "The Hub of Five Great Valleys" (as the local chamber of commerce liked to say), in the mid-'50s was the location of that area's and my first venture into commercial TV.

KGVO's studio then was located at the transmitter site high atop TV Mountain, a peak 7,000 feet above sea level (3,500 feet higher than Missoula), some 20 road miles northwest of the city, but only 10 miles for an adventuresome crow. Getting to the top of that mountain each day in the dead of a Montana winter we felt was true television pioneering.

A 4x4 carryall provided (almost) reliable daily transportation.



the ever-steepening road and freshly fallen or drifted snow.

It was at this point, in a broad hairpin turn of the road, that our alternate transportation was parked. This war-surplus vehicle had skis in the front and half-tracks on the rear (an early-day snowmobile). It seated

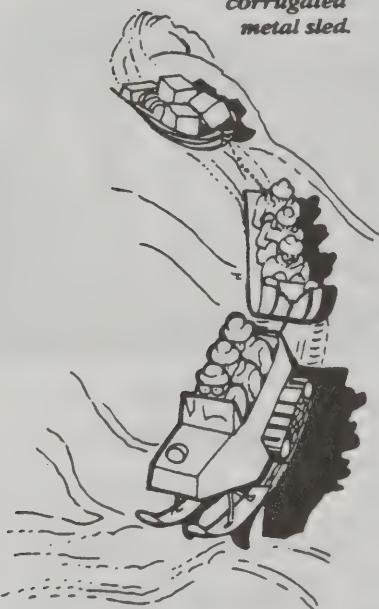


The author was also known as Cactus Charlie (that's him on the left)

He served as Missoula's KGVO-TV station announcer and later, production manager. He now lives in Spokane.

three people, one behind the other in its narrow plastic-curtained confines. The remaining three crewmen climbed aboard a toboggan hitched to the rear of the half-track, with our films, program logs and scripts for the day loaded on a sledge (fashioned from corrugated sheet metal) tied to the tail of the toboggan.

The final trek to the top was accomplished with a strange train of early-day snowmobile, toboggan and corrugated metal sled.



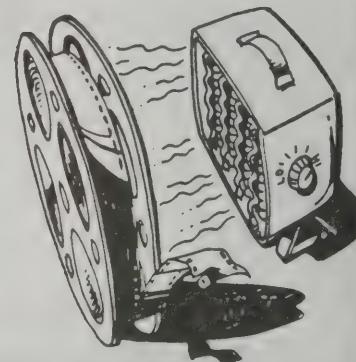
Up, up and away our little caravan went between roadside walls of snow twice as high as our vehicle. Those last few miles were traversed in the early dark of a typical Montana mid-winter afternoon — temperature below zero, a biting wind and air so thin that breathing was a real chore.

Once atop the mountain we cast aside our roles as mountaineers and began our broadcasting duties as we settled in for an evening's programming. Microwave links had not made their way to the wilds of Montana in those days so our programs were live or on film. (Some of the films were kinescope recordings of network shows mailed to us a few weeks after their live air dates.)



At 7,000 feet, it was a mistake to rush toward an announcing task.

Inside the building we warmed up faster than did the film. After its sub-zero sledge ride, our film required warming up next to an electric heater before it would unbend sufficiently to be mounted on a projector. A discomfort suffered by the six of us that no amount of warming up could ease, however, was having to breathe at 7,000 feet with lungs attuned to Missoula's 3,500-foot altitude. It was a mistake to rush toward any announcing task, whether in the booth or on-camera; any quick pace left a person breathless, literally.



Bitter cold film had to be heated before it could be unwound from its reel.

Upon completion of our daily broadcast schedule we would bundle up our load of programming material and head out into the night to climb aboard our trusty transportation for the ride home — hopefully.

It was the middle of the night when our daily schedule was completed. Beholding the splendor of a Montana winter night from the top of that 7,000-foot mountain was unforgettable. Our building nestled in a bowl

of snow sculpted first by a snow blower and then polished by the wind. The snow walls were as high as the building and as smooth as porcelain. Often the sky was completely clear and so crowded with stars it took one's breath away — figuratively, this time.

The weather never kept us off the mountain that winter, but it did keep us on the mountain twice. Once, a classic blizzard hit while we were on the air and it would have been senseless for us to attempt to mush our half-track down to the carryall. The other time, after a snow blower had cleared the road, we had driven the carryall to the top of the mountain. At the end of broadcasting that night, we discovered that a heavy snow had fallen, but we started down the mountain anyway, hoping the blade on the carryall would get us through.

Such was not the case. The snow was too heavy for the blade to cut through, and we couldn't raise it high enough to keep it from dragging in the snow. So, several hundred feet down the road, with the help of tools carried in the vehicle, we removed the blade, and the six of us "one-two-three-ed" it over the side of the mountain.

Back in the carryall, without the blade, we hoped we could ram through the drifts, but it was no use. We were stuck. We locked the carryall (against what?) and huffed and puffed our way on foot back up to the building to spend the night.

Sometimes that winter when the weather would ease and road conditions improve a little, we could use the carryall for the entire round trip, and the half-track, parked in that wide turn part way down the mountain, would not get continuous use.

During one such period of idleness its engine froze solid. We built a fire under it to thaw it out but succeeded only in burning off all the ignition wires and most of the hoses. But that's another story.

Spending the night on the mountain was adventuresome and often uncomfortable. There was no source of water on that isolated mountain top. For an eight-hour shift that fact was acceptable, but staying overnight posed a problem. There was a room that was designated to become a bathroom but it contained only a water heater and a toilet, neither connected to anything; the toilet merely sitting on the floor. Stuck on a mountain top for 32 hours in the dead of winter with no inside plumbing, and the outside of the building sitting in a 15-foot-high snow bowl, where do you go? But, that, too, is another story.

As winter waned, the road became passable, not only for us but to the average family car, and visitors became, if not frequent, at least welcome.



One pleasant winter evening, when we still were surrounded by snow but with the road clear and well-traveled, we noticed a strange odor in the building. Our first thought was that an animal had gotten inside and left its half-eaten prey, or perhaps, just its calling card.

A quick inspection revealed the source of the smell. Sometime during the previous few days when we had been visited by several carloads of hearty souls, someone had answered both calls of nature in our water-less toilet. We could only imagine their embarrassment when they discovered that it was not hooked up to anything.

What to do? We slipped a hand truck under that commode and rolled it outside where it sat in freezing weather until melting snow heralded the arrival of spring.

And, now, 30 years later, I sometimes wonder if anyone hiking in the pristine beauty of the western Montana high country has stumbled upon that toilet. Because, one spring day we tossed that commode, just as we had the snow blade, over the side of TV Mountain.





WTFDA Internet E-mail List

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REGULAR INTERNET E-MAIL FM/TV DX UPDATES

moderator: Matt Sittel

I've been publishing a once-a-week newsletter via the Internet consisting of DX reports, station changes, and other similar items of interest to DXers. It's kind of like the VUD but only more frequent and less formal. If you'd like to start receiving this newsletter which is currently mailed out every Tuesday, drop me a line at: sittel@coaps.fsu.edu

I have been receiving these bulletins, as have maybe 25 or so DXers, many of whom also happen to be VTFDA members. Matt does an excellent job with this, and I recommend it to anyone with Internet access! It is great, especially during this summer's great e-skip, to find out about a major opening just a day or so later!-gc)

BROADCASTING RESOURCES ON THE INTERNET
by Neil Griffin

This file started because several colleagues of mine were looking for broadcasting related resources on Internet. I decided to polish the list up and post it for the good of humanity. Please mail additions and corrections to ngriffin@nyx.cs.du.edu. These are divided into digests, lists, newsgroups, and remote systems. Not all systems are capable of all of these, so be forewarned. All addresses are Internet addresses. Some lists have Bitnet addresses as well. I have tried to verify all of the addresses, but don't have time to read all of these lists, so I have relied on some second-hand information. Accuracy is not guaranteed, but what do you expect for free! Enjoy and send those corrections and additions. (This listing here in the VUD highlights just items of interest to FM and TV broadcasting enthusiasts. Contact Neil for the full listing-gc)

AIRWAVES— This is a digest of the rec.radio.broadcasting newsgroup listed below. It is moderated, and is aimed at professionals in the field. There are "Radio Watchers" who send in regular contributions from their regions. It's a great place to keep up with distant markets and to talk about issues in the industry. Digests are sent out once or twice a day typically. Subscribe: subscribe@airwaves.chi.il.us. This is also available as a USENET "news group" bulletin board as: rec.radio.broadcasting. (I subscribe to this newsgroup and find it very interesting, many format changes are reported first here....lots of talk about FM radio, and even reports of "strange long distance reception" at times, hi!-gc)

AM/FM — Keep up with events in the British broadcasting industry. Lots of news about new private broadcasters. This one sticks to radio as well. Issued monthly. Subscribe: listserv@tqcomms.co.uk. Include "SUBSCRIBE AM/FM your name"

DJ-L — An unmoderated list about college radio. Most postings relate to programming and management. Subscribe: listserv@vm1.nodak.edu Include "SUBSCRIBE DJ-L your name"

NACB-L — A list targeted at stations and members of the National Association of College Broadcasters. Discussion centers around station management and NACB events. This is an open list. Subscribe: listserv@gwuvm.gwu.edu Include "SUBSCRIBE your name"

NBS-AEP — A list targeted at members of the National Broadcasting Society, a student and professional association. Postings include NBS events and job openings. Subscribe: listserv@cunyvm1.gc.edu Include "SUBSCRIBE NBS-AEP your name"

SatNews — A newsletter about satellite television broadcasting worldwide. This is also posted on rec.video.satellite (another USENET news-group bulletin board-gc). Subscribe: listserv@orbital.demon.co.uk

Talkin' Tech — Technical issues are the focus of this list. It is an un-moderated list server, and traffic is still light. The primary focus is broadcast equipment and engineering. Subscribe: tech-request@airwaves.chi.il.us Include the word subscribe in the subject heading.

Broadcasting Resources, cont.

Telecomreg — This list is devoted to discussion of telecommunication regulations. Much of it is non-broadcast (Data networks, Telco regs, etc.), but there is some good information on cable and multichannel television. It also carries short articles from Multichannel News. Subscribe: listserver@relay.adp.wisc.edu Include "SUBSCRIBE TELECOMREG your name"

INTERNET "USENET" news groups:

alt.radio.pirate — This USENET newsgroup is devoted to pirate broadcasting. Frequent issues are the "microbroadcasting" movement, Part 15 rules and regulations, and the construction of low power transmitters such as the Ramsey FM-10.

rec.radio.broadcasting — see AIRWAVES above.

rec.radio.noncomm — Noncommercial and public radio are the focus of this newsgroup.

rec.video.satellite — Satellite broadcasting is the focus of this newsgroup. Frequent issues are programming, scrambling, wild feeds, and equipment.

Other resources: ftp, gopher, BBS, etc.

FM10 — Information about the Ramsey FM10 kit is available here. Other pirate radio stuff here, too. It's in the fm10 directory. FTP: ftp.dg.com Login: anonymous Password: your address

Federal Communications Commission — The FCC has recently established a gopher and an FTP site. Available information is limited, but includes Notices of Proposed Rulemakings and the Daily Digest. Gopher: gopher.fcc.gov
FTP: ftp.fcc.gov

ISCA BBS — ISCA has a forum called Media Issues. It includes discussion of both print and broadcast media. Telnet: bbs.isca.uiowa.edu

KUOI — The University of Idaho gopher includes KUOI program listings. The real nugget of gold here is the Other Stations selection that has connections to gophers of over 30 stations. Choose the UI Gopher Services option and then KUOI. Gopher: gopher.uidaho.edu

Skynet BBS — This BBS recently added a room called Radio Stations. Discussion is primarily college radio. Telnet: hpx6.aid.no Login: skynet

WKAR — Here's a nice example of what a gopher can do for a radio station. WKAR-FM (E. Lansing, MI) program listings are included at the Michigan State University gopher. Choose Computing and Technology followed by Broadcasting Services. Gopher: gopher.msu.edu

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(Thanks, Neil! There are a growing number of resources on the Internet of interest to the radio/DX hobbyist. Unfortunately, we don't have the space here to go into detail about what exactly all these services are, but here are short summaries: When you subscribe to a list server, people send updates to the address listed, and you get all their messages as mail, usually daily or close to it. Send a mail message to the address listed, and follow any extra instructions Neil has provided. USENET are Internet "discussion groups", or "news groups". In many cases, before you can subscribe to one of these, your institution must have it available. To get it available varies greatly in difficulty. Also, the method for accessing these bulletins varies because different places use different programs. Contact your system administrator or "help desk" for more information. I believe most commercial computing services, such as CompuServe, Prodigy, America On Line, etc. also have radio and TV discussion groups, and I believe people in those groups can now access the USENET groups as well. Anonymous ftp are sites where you can log in to the site listed using your ftp program, and download programs freely. Gophers are "information" servers that are menu-driven, that can distribute quite a bit of information. You usually can log onto one anonymously, and now they have gophers for almost *anything*. Within the last few months, the latest Internet rage has been "Mosaic", and "World Wide Web". Organizations can construct "home pages", that are graphical, if you have a graphic connection to the internet, and can even transmit movies and sounds. These are usually in a menu setup like gopher, only with a multi-media type presentation. I have heard of more radio and TV stations getting these, and in my opinion, access to many broadcast outlets may soon be possible this way. If you are on internet, and have a question, feel free to e-mail me and I'll see what I can do! Feel free to e-mail anytime, too, even if just to say hello. I will try and get back as soon as I can. You can report to NFMDX and FM News by e-mail too, write for more details-gc).

UHF DEVELOPMENT

HISTORY OF THE "ULTRA-HIGHS" - (Part One)

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POLITICS AND TELECASTING

The United States came out of World War Two with finely tuned manufacturing machine and full employment. During 'the' war a number of budding American technologies were put on ice for the duration of the hostilities. Television broadcasting was one of these frozen in time. As of that 'day in infamy' in December 1941 the Federal Communications Commission had approved commercial operation for three TV stations (1). As many as 10 stations (the records are not exact on this) had obtained experimental licenses or were transmitting without the formality of an experimental license (and thus the accuracy of history on this point) (2). In practice, there was little difference between 'commercial' and 'experimental' in (December) 1941. In theory commercial licensees could sell advertising time but in fact almost no such sales had taken place (the first 'paid commercial' to appear on television was over WNBT on August 17, 1941; the advertiser was Adams Hats) and commercial stations like their experimental

counterparts operated typically 1-5 hours per week with something approximating programming and on some days they displayed only a test pattern. Even as late as the fall of 1947, WCBS operated but four days per week, WNBT six days and WABD five days (each typically less than four hours per day) and this was 'big apple television!' Chicago's WBKB was the first station to broadcast 7 days per week (fall of 1947).

Of the five stations holding a license by 1942, all were in what we now call 'low band' (channels 2-6). Contrary to popular myth, no commercial TV stations ever operated on channel 1 but there was in fact a channel 1 frequency band from 44 to 50 MHz between 1945 to 1947, and before that (1935 to 1940) TV was allocated 'experimental status' in the band 44-56 MHz. Three prominent stations used the 44-50 MHz portion in that era: what is now WNBT (then W2XBS) in New York, what is now KCBS-TV (then W6XAO in Los Angeles) and W9XBK in Chicago (later became WBKB on channel 3). FCC records reveal that although at least one commercial construction permit

THE DEVELOPMENT OF TELEVISION 'CHANNELS'

FCC documents do not routinely refer to TV assignments as 'channels' until August 1945; prior to that what we now regard as a 'channel' was called a 'TV band.' Original mechanically scanned (spinning disk) television as primarily operated in the 2-3 MHz band; or 'HF.' By 1931 RCA, Don Lee in Los Angeles, and a handful of others were experimenting with what they then called 'the ultra-high frequency' range: 42-90 MHz. We now call it low-band VHF. In 1935 FCC records had 15 experimental stations licensed in the 'ultra-high' region. The 'V bands' at that time were 42-56 MHz, and 60 to 86 MHz. Don Lee's W6XAO in Los Angeles, with its original 'ultra-high frequency' transmitter atop the Don Lee Cadillac Showroom (7th and Bixel in Los Angeles) operated to a published schedule (video 45.00 MHz, audio 49.75 MHz). W6XAO began its six-day-per-week schedule on December 03, 1931 (!) and never missed a day (Sundays and holidays were excluded) for ten years. During this period a typical 'week' was 7 hours of programming of which 5-3/4 hours was studio-live. Over time W6XAO became today's KCBS-TV and can rightfully claim title to being the oldest 'continuously operated' TV station in the world. We conceptualize 'TV channels' today as 6 MHz wide. But that is predicated upon our present 525 line/AM modulated picture and FM sound system. In the 1930s, picture definition of all-electronic TV (i.e., after mechanical spinning disks) gradually matured from 120 lines to more than 400. Each new expansion of picture lines (definition) increased the bandwidth of the TV signals. TV transmitters at the time were 'double sideband' (as opposed to today's vestigial sideband system that eliminates much of the lower sideband), and until July 1941, AM sound. Thus the 'bandwidth' or (later) channel-width was a highly flexible number until the FCC settled upon the basic NTSC system we know today, in 1941.

In 1936 the FCC created preliminary TV 'bands', 3 in all, with the first two spread between 42 and 108 MHz (then channel 7 was 102-108 MHz). It was on this foundation that RCA's W2XBS, Philadelphia's W3XE and CBS's W2XAX grew into WNBT, WPTZ and WCBW respectively. In 1940, there was another frequency shuffle to make room for FM broadcasting in the 42 to 50 MHz region. Prior to that, experimental FM had been allowed in the 42-44 MHz range. This left 2-1/2 TV 'bands' as America entered WW2 but no stations operated above 72 MHz at the time. The original WCBS (then WCBW) commercial license was for 50-56 MHz; WNBT was 66-72 MHz, WPTZ 60-66 MHz. Don Lee's W6XAO continued as an experimental station through WW2 but adapted to the 50-56 MHz allocation. Finally in 1945 the FCC adopted a 13 channel VHF plan, re-assigning 4-50 MHz to channel 1, moving FM first to 88-102, later expanded to 108. 42-50 MHz FM stations were allowed to operate in both bands for a period of time; a story I shall relate separately. On March 01, 1946 this plan became 'officially in effect,' and WCBS and W6XAO had moved from 50-56 to 54-60. The amateur band from 56-60 MHz (5 meters) through all of these changes became 50-54 MHz (6 meters), also on March 01, 1946.

was issued for channel 1 (to KARO, Riverside, California in 1946), no station ever actually broadcast there on a commercial basis. During 1945, Zenith, using the very unusual experimental station call letters WTZR, also used 44-50 MHz for tests of various new TV transmission techniques. Zenith in 1946 moved this transmitter to the present channel 2 (54-60 MHz), and in the early 1950s made a present of this pioneer TV transmitter to Valparaiso Technical College in Indiana. Channel 1 was to channel 2 as 4 is to 5; a 'guard band' of non-television space existed between the two (50-54 MHz). The FCC in the 1945 plan seemed to have a special purpose in mind when creating channel 1 as the literature suggests it would be a low power (1 kilowatt maximum power) 'community channel' for smaller centers of population; a novel idea that was stillborn.

More than thirteen million US service personnel were returning to a country in high gear, a significant change from the depression tainted economy of 1941. Post-war reconstruction of Germany, Japan and much of Europe demanded goods and services which America, having never been seriously in danger of attack, was singularly able to deliver. Politicians were anxious not to turn back the country's economy to pre-war and new industry was actively encouraged.

RCA history relates 'they' pioneered all-electronic television in the mid 30s and by the 1939 Worlds Fair on Long Island demonstrated a 441 line, interlaced scanning, AM video system very similar to that we still use today. RCA claims that American TV was inaugurated April 30, 1939 with a telecast from the Worlds Fair grounds. In actual fact, Don Lee at W6XAO was doing the same thing from December 3, 1931 in Los Angeles. FM audio was not added until 1941, however. Both the trade and popular press of the late 30s consumed an abundance of print space describing the wonders of television to a public that had been teased with the prospect of television from the mid 20s onward.

RCA had created a chassis (the TT5) which went into production in 1938. General Electric, Dumont, Andrea and others designed and offered TV sets with 5 to 12 inch picture tubes. Even Sears Roebuck commissioned RCA to build 'Silvertone' TVs in 1938; approximately 70 of the units were built with 12 inch picture tubes and placed in Sears Roebuck stores in the Long Island / New York City region during 1939 as part of a promotion using the Worlds Fair as a focal point. You could swap one of these first Silvertones today for the fanciest state-of-the-art 60" home projection system available; such are the attractions of memorabilia.

RCA had two serious competitors in 1941; General Electric (with whom it was or had been in business in a number of allied fields) and (the) Allen B. DuMont Laboratory. General Electric operated WRGB television in Schenectady, held a commercial license for channel 4 by 1942 and began experimental television on a routine basis on November 06, 1939. DuMont was technically still licensed as an experimental station (W2XWV) in December of 1941 but managed to obtain a commercial license for WABD against long odds on June 23, 1942, after the FCC had 'frozen' television development because of the US entry into 'the war.' DuMont had special technology that even RCA did not possess; their founder (Allen B. himself) had created the modern day cathode ray tube refinements necessary to mass produce picture tubes. In fact, in 1941 DuMont filed a patent application covering a three-gun color TV picture tube (the Trichomoscope patent was granted on December 28, 1943) and RCA was subsequently cross-licensed for the technology. RCA claims a decade later that they developed the NTSC tri-gun tube system must at least be moderated by DuMont's 1943 patent. DuMont would figure heavily in the first decade of television development (1945-1955), operate a network in his own name, and drive the FCC into a number of decisions which they wished to avoid. The story of

1/ The FCC granted three 'commercial' TV licenses in 1941 (the first year of NTSC standard, commercial TV). They were WCBW (CBS) in New York (50-56 MHz) granted July 01, 1941 but the station did not begin programming until very late in 1941, WNBT (66-72 MHz) granted July 01, 1941, and, WPTZ (60-66 MHz) on September 16, 1941. By the next FCC frequency-shuffle (August 1945) new stations with commercial licenses grew to WRGB (66-72 MHz) on March 01, 1942, WABD (78-84 MHz, later 76-82 MHz) on June 28, 1942, WBKB (Chicago; today WBBM) on October 13, 1943, 60-66 MHz (moving to 66-72 MHz December 1946).

2/ 'Ultra-high' (actually low-band VHF) band FCC experimental TV licenses came and went during the 30s; licensing for this application was not complicated and many would-be entrepreneurs went as far as getting a license. Amongst those that stayed with it to eventual commercial status (in addition to those cited previously) were W9XD (The Journal Co., Milwaukee, today WTMJ).

3/ *An Historical Study of the Du Mont Television Network* (Gary Newton Hess, ARNO Press, 1979) is recommended reading for anyone who wonders what ever happened to the original DuMont Network, DuMont TV sets, and this very courageous man.

4/ While FCC records are hardly infallible, it appears the first commercial TV station to operate on each of the present 12 VHF channels began commercial operation as follows: CH.2/WCBW(CBS) (July 01, 1941*); CH.3/WPTZ (Sep.16, 1941*); CH.4/WNBT (July 01, 1941*); CH.5/WABD (June 28, 1942*); CH.6/WFIL (Sep.16, 1947); CH.7/WMAL (Oct.13, 1947 - first high band); CH.8/WHEN (Dec.01, 1948); CH.9/WGN(first WGNA) (Apr.05, 1948); CH.10/WCAU (May 22,1948); CH.11/ WPIX (Jun.15, 1948); CH.12/WICU (Mar.01, 1949); CH.13/WATV (May 15, 1948). */ Date appearing on license authorising commercial operation; actual commercial start after this date.

DuMont (the man, the TV set that bore his name and the TV network that introduced Bishop Fulton J. Sheen "Life Is Worth Living" - and popularized live TV resting) is a fascinating subset of TV history (3).

When in 1946 the FCC was allowed by the President Truman at the time to renew the call for TV station license applications there were 13 TV channel spaces each 6 MHz wide) set aside for TV. Unfortunately for history, this number would become 12 (the final 2-13) by January in 1948 as post-war frequency reshuffling left up channel 1 (never a solid choice in the first place; awarded to two-way radio ultimately). The original 1930's TV allocations had set aside 7 low-band channels' and 12 more in the general region we now call high band; 19 in all. FM at the time was operating in the 42-50 MHz region and how the FCC in 1944-1945 settled on FM from 88 to 102 (later 108) MHz is an intriguing stand alone story all by itself.

So the FCC announced in late 1945 it would accept applications for new TV stations (4). Life was simpler at the time and the Truman administration was anxious to have as many new TV stations on the air as possible; quickly. Politicians were quite keen on the new medium; the GOP selected Philadelphia for its 1948 convention largely based on the coaxial cable (network interconnection) passing through; they anticipated correctly) live coverage of their sessions from New York to Washington, and possibly further if the cable was extended before convention time. When radio station WMBR in Jacksonville, Florida applied for a construction permit on channel 4, it was granted almost immediately. Comparative hearings between competing applicants were virtually unknown in 1946; the first company that asked for a channel almost always got it although Allen B. DuMont had some serious opposition when he applied for stations in Cincinnati, Pittsburgh and Cleveland). The first new commercial station on the air when the war freeze ended was DuMont's WTTG (ch. 5, Nov. 29, 1946). Strangely, the CBS network was little interested in acquiring its own (O and O) TV stations in this same era passing up an opportunity to build stations in key markets; a decision they would later regret (and a story for another time).

Most early TV transmitters were built by RCA; as were most TV transmitting antennas, TV cameras, TV film chains and so on. The RCA TT-5A transmitter first delivered in the fall of 1947 had 5kW of power

and was called 'All Channel' because it would, for the first time, provide the ability to transmit in the high band (7-13) channels. General Electric started late and lacked the vision to be ready when the FCC said 'GO' but by 1950 was a worthy competitor; RCA's David Sarnoff was pre-primed after a decade of careful planning that began with the RCA Worlds Fair exhibits.

Prior to the World War Two 'freeze' on new TV stations, and a closure by the government of any plants making TV receivers (the plants were not closed, merely told to stop building consumer goods and begin building military equipment), an estimated 5,000 to 7,000 TV sets had been manufactured. RCA claimed to have built 4,000 and as with the very early days of radio, there were dozens of small firms that might 'manufacture' a couple each day in shops barely larger than one stall garages. 3 and 5" 'kits' were offered and widely advertised to hams and others but no accurate records were kept of their combined sales. Americans may have been willing to wind coils on oatmeal boxes for their first crystal sets; TV kits with more than a dozen tubes and 5 kilovolt plus power supplies were far more intimidating and outside of relatively affluent 'hams' (the kits were upwards of \$125 which in today's dollars would be over \$1,500) they did not attract the average person. GE and DuMont were the only serious RCA competitors through December 1941, and in 1946, the first year of post-war production (a partial year at that), RCA produced 8,000 of its then-new 6T530 chassis as well as some of the pre-war designs such as 6T621s. Combining the 4,000 pre-war sets reported to be in use with the 10,000 produced in 1946, the industry was at the 14,000 receiver plateau as 1947 began. It is worth remembering that pre-1941 sets were designed to work with AM (rather than FM) sound and when FM sound began RCA advised its service personnel to re-align the AM sound detector in user sets to 'slope detect' the new FM format. This was never a satisfactory solution and AM sound sets, while valuable collector items, are near useless today for serious TV program watching and listening.

Pre-WW2 TV sets potentially had six TV channels, if they had channel selection at all (some designs were 'TRF or 'tuned radio frequency' sets that were capable of receiving only a single 'channel'). It might surprise you to know there were even firms building TV boosters in those days; one, called the *Maryland Booster*, was produced in sufficient quantities that its

-EXPERIMENTAL STATIONS DID NOT STOP-

When the FCC began processing television license applications in 1946, it was not the end of the experimental era. Los Angeles W6XAO, the Don Lee station, continued to operate with its experimental license until May 01, 1949 which was after commercial stations KTLA (ch. 5, January 22, 1947), KLAC (ch. 13, September 13, 1948), KFI (ch. 9, October 06, 1948), KTTV (ch. 11, January 01, 1949) and KNBH (ch. 4, January 16, 1949) came on the air there. The concept of commercial licenses included a firm commitment to operate on a schedule and with only 154,000 TV sets in the entire United States on January 1, 1948, commercial operation to a schedule meant running up sizable sums of 'red ink' just to meet the 'commercial schedule.' If you were going to lose money, perhaps it was better to lose less by staying experimental!

Amongst the experimental licensees active in 1946 were W9XUI (University of Iowa; later WOI-TV February 21, 1950), and W9XFT in Fort Wayne (66-72 MHz, Farnsworth Television and Radio), this channel ultimately migrating to WTTV (November 11, 1949) in Bloomington after a side trip to channel 10.

brown bakelite plastic case still shows up at radio collector and swap meets today. It used a single 6AK5 tube, had around 15 dB of gain, and was continuously tuned through 44-88 MHz. TV antennas were a product of the technology of the time; the trade press of the era spent considerable space trying to convince people they would get better reception with a 'tuned aerial placed out-of-doors,' it being apparent that many would be TV installers believed a random length of wire strung along the floor molding of a room was an adequate antenna! Some prominent engineers of the era operating TV sets close to transmitters had somehow become convinced that 'VHF waves' penetrated buildings so well no real aerial was required. A dipole (almost always cut for channel 4 since it was mid-band, and, many early stations were on channel 4) backed up with a reflector (i.e., a two-element 'beam') was considered an elaborate antenna. Coaxial cable in 1941 was a (Bell Telephone) laboratory curiosity but then so was 300 ohm twinlead. Most antennas placed out of doors were connected to the TV sets with something approximating today's lamp cord (nominally called 90 or 150 ohm 'twin lead') or something called 'twisted pair,' two wires continuously wrapped around one another. The impedance of the dipole, the impedance of the TV set input, and the impedance of the transmission line was little understood outside of the laboratory and it would be 1948 before the industry began to sort this detail out.

Post-war sets (now with FM audio) first off the line (such as the RCA 6T530 receiver) had either pre-war style 'station' tuning typically accomplished with push-button selection of pre-tuned circuits that corresponded to a single channel each, or, 13 channel (1-13) tuning (RCA 630 TS). DuMont had a very ingenious continuous-tuner (InducTuner) but it was not universally popular since viewers sometimes could not properly tune-in stations. Pre-tuned, push button or turret tuning, was the obvious consumer-friendly approach. It was 1948 before the 12 channel turret-style tuners we took for granted through the mid 60s appeared universally. Late in 1947 Dynamic was offering a 7" kit (\$159.50) equipped to receive four channels (but six were optionally available). RCA sets had sub-assemblies they called 'front ends' which a few distributors offered as optional kit-segments and by late in 1947 these 'front ends' were capable of receiving all 13 channels. With some careful digging you can locate abandoned receivers of this era with these tuner styles still intact. But the mere presence of channels 7-13 on a TV tuner did not guarantee the TV set would function above channel 6 (if anyone actually produced sets with 19 channel 'tuning,' it has escaped my research; certainly there was a period of time between 1941 and November 1945 when this would have been the far-sighted thing to produce; before the FCC settled on channels 1-13). At the end of the year, industry records show 140,000 1947 version sets were produced. In theory, subtracting the hold over kits such as Dynamic's, well over 100,000 of the channel 1-13 capable sets should be out there for the 'collector.'

Although the TV industry had developed equipment for channels 1-6 quite well prior to December 1941, and thought they understood the new technology required to make TV transmitters and TV sets function there, channels 7 to 13 were as much a mystery in 1947 as UHF channel 14 would prove to be in 1953 and after. The first commercial TV station to activate in what we now call 'high band' (7-13) was WMAL on channel 7 in Washington (October 3, 1947). In fact, as late as 1947 RCA held FCC licenses that allowed it to use the spectrum we now recognize as channel 7 for 'mobile relay' from remote production vans back to the Empire State Building transmitter of WNBT (RCA channel 4). And reading carefully the reports contained in *RCA Review* during the first half of the 40s, RCA was not having an easy time making even low power transmitters work at 'such a high frequency.'

Coupled with the unstable and inefficient transmitters for high band TV were receivers that frankly lacked the ability to function much beyond the very close-in primary service areas of such stations. Worse yet, because the low band stations were first, people who initially bought sets installed low band aerials (the dipole cut for channel 4 backed up with a reflector), and lamp-cord style leadin wire. None of this worked to the advantage of the high band licensees who struggled well into the 50s trying to achieve 'coverage parity' with their low-band competitors. As late as the fall of 1952, 38% of all TV stations in operation were piled atop one another on channel 4.

One can see this struggle lasting well into the mid-50s by studying the TV DX Reports appearing in the regular column carried by *Radio Electronics* magazine during the period January 1951 through January 1960. Mixed in with the frequent (and often quite spectacular) Es reports of the era were a handful of high band tropo DX reports. As late as 1955 column conductor Edward P. Tilton was marveling at 450 mile high band loggings over paths we now yawn about; September loggings between New England and Virginia, for example, or Ohio to eastern Iowa. The combination of very poor receiver sensitivity at high band, low gain antennas, and 5 kilowatt transmitters operating through 400 foot antennas all added up to a significant commercial disadvantage for the pioneer 'high banders.'

ENTER UHF

On September 30, 1948 the FCC issued an announcement; they would grant no more applications for new TV stations (CPs). Thus began what would ultimately turn out to be a forty-three month 'freeze' on TV development during which the FCC would reconfigure the entire nationwide TV channel allocations scheme, consider the impact of color, and authorize the establishment of channels 14 to 83.

The FCC-cited cause of the freeze was co-channel interference. Lacking adequate prior experience with VHF propagation, the FCC in 1946 had taken the final 12 VHF channels and established a national 'assignment policy' allocating TV channels to cities and

towns across the nation. Their intention was to insure that every home in America would have at least one TV transmitter within 50 miles. In the largest cities (New York, Los Angeles) there would be seven TV transmitters allocated (channels 2,4,5,7,9,11 and 13). In between ... Lancaster, Pennsylvania (originally allowed channel 4) and New York City, cities such as Chicago, Atlanta and San Francisco were allocated more than 1 but fewer than 7 channels of their own. As already noted, if you were quick off the mark in 1946-1948, applied early and acted anxious to get on the air, the FCC granted your construction permit (permission to build the station) quite routinely.

119 TV stations had been granted CPs by September of 1948. Of those 119, a mere 34 were actually on the air when the freeze hit. When, in mid 1952, the freeze was over, 107 of the original 119 were on the air (the remaining 12 lost their CPs for failure to build). Unfortunately for the rest of the country, the FCC had initially allocated channel 4 along the eastern seaboard such that it popped up in Boston, Schenectady, New York City, Lancaster, Washington (DC) and Norfolk. And just as unfortunately, Washington's channel 4 (then WNBW) suffered frequent co-channel interference from WNBT and WRGB. On occasions the interference was so bad that they tell the story of President Harry Truman finding he could not tune in a program he wished one night in August of 1948 (we all know what can happen along the eastern seaboard in August-September), and he was 'just down the street' from WNBW's transmitter. As the tale goes, he and a number of influential Senators and Congressmen were infuriated that their TV reception was being 'interrupted.' To the north of Washington, Baltimore residents with TV were tuning in the DC stations (although WMAR had signed on channel 2 September 27, 1947 and WBAL on channel 11 March 11, 1948) and influential Baltimoreans such as the then mayor made a big fuss when their WNBW reception was 'marred.' Television had been widely promoted as being 'interference free' and the public believed this. Co-channel was, in September of 1948, a minor irritant but to a public that expected no such interference, it was a mind blower. The FCC, facing both hundreds of written and telephoned complaints from the hinterlands, and one or two high level calls from people like 'The President', did the politically correct thing; it admitted it 'may have made some mistakes' in channel allocations, and with virtually no warning or consideration for quick

fixes simply shut down the development of TV overnight. In retrospect, the freeze was overkill; a knee jerk reaction to a localized problem that could have been sorted out with minor channel shuffling. Compounding the mistakes of allocation, just beginning to be apparent in the early fall of 1948, after the freeze began and through 1952 when the freeze ended, the FCC then allowed two additional stations (holding construction permits when the freeze hit) to sign on the air. Lancaster's WGAL (1949) and Norfolk's WTAR (April 1950) turned an occasional irritant into a constant sore shoe-horned as they were into an already crowded channel 4 spectrum along the eastern seaboard. With hindsight, the FCC over-reacted with the freeze and then compounded their error by allowing WGAL and WTAR to transmit on channel 4.

The FCC said "*The Freeze will last a few months; six months at the most.*" In fact, it lasted until April, 1952; 43 months. In between the freeze announcement and the end of the freeze America went to war in Korea (producing another period when many TV set makers were urged to retool for weapons and military communications equipment), the FCC became locked into a heated controversy stirred up by CBS over whether any new stations should be licensed for any channels until the FCC had reached a decision concerning color, and, RCA with Allen B. DuMont, in one of the rare times when they agreed, pushed the FCC hard to consider UHF.

UHF was first proposed by CBS in 1946. CBS and NBC had the advantage of being radio network operators and this gave them special expertise in creating, distributing, promoting and selling programming. DuMont, for a brief period with more affiliates than CBS and therefore number two behind NBC, lacked this practical experience. Both NBC/RCA and DuMont had another advantage CBS did not possess; they manufactured TV sets and had a loyal distributor/dealer network. CBS was afraid, in 1946-1947, that NBC and DuMont, for their respective strengths, would bury CBS television before it was well established. It needed some way to slow down the rapid development of both. Color was their strategy. CBS, run more like the personal property of founder William S. Paley than a modern corporation, was perhaps jealous of DuMont's considerable technical abilities, and RCA's position as a pioneer. This jealousy may have caused Paley to push hard for his own pet project (color) before it was technically ready to be pushed.

-THE CHANNEL ALLOCATIONS TIME LINE-

- 1931-1936: (Experimental) TV bands 42-56 and 60 to 88 MHz
- 1936: (Experimental) TV bands 42-56, 60 to 92,
- 1939: (Experimental) TV bands 44-56, 66-72, 78-90, 96 to 108, 156-168, 180-192, 204-216, 234-246, 258-270, 282-294 MHz
- 1940: (Experimental) TV bands same as 1939, eliminate 44-50 which went to FM
- 1941: (Commercial) TV bands adopted experimental channeling of 1940
- 1945: (Commercial) TV bands changed to channels, FM given notice it would move to 88-108 (because of Sporadic E interference in 44-50 band; a topic for another report) resulting in channels 1-13
- 1947: (Commercial TV) drop channel 1 leaving 2-13 as we now know them
- 1952: UHF channels 14-83 added

CBS had a research laboratory and in 1946 it jumped the FCC with proposals to establish color. The FCC quickly saw through the CBS plan; to transmit color with 1946 technology (yes, it was possible) required a channel wider than 6 MHz; 12 to 16 MHz to be precise. CBS argued that if the FCC plunged ahead with allocating 6 MHz wide TV channels nationwide, 'color would forever be lost' since once stations operating in 6 MHz channels were established, and millions of people had TV sets in their hands, there would be no going back to reconfigure the TV allocations for the wider-than-6 MHz requirements of color. CBS was adamant that color would not 'fit' into 6 MHz. RCA was doing only modest color research at the time, and when they argued against the CBS position it was from a "trust us, we are RCA" posture rather than one of actual technical knowledge. RCA, equipped with (amongst other things) DuMont's tri-color tube patent, hoped (but could not demonstrate nor prove) that color would fit into a standard 6 MHz channel. In fact, RCA was quietly evaluating their own 14.5 MHz wide color system using a UHF (519 MHz) experimental license at that time. Dumont of course took the more optimistic RCA position. Both argued there was no need to hold up further station licensing because of color's unknown future bandwidth requirements. To DuMont the sudden freeze in allocations became a death curse; without additional stations on the air, DuMont hopes of gaining enough overall station affiliates to compete with NBC and CBS would prove hopeless. The longer the freeze dragged on, the more powerful CBS and NBC became; DuMont was losing money and could ill afford to continue the network without adequate affiliates. Without affiliates, it couldn't gain advertisers. And, without advertisers, it couldn't produce programs. And most of the early TV stations on the air signed first with NBC, next with CBS, and finally with DuMont. As a practical matter, many DuMont programmes went out 'live' only, and were lost when stations would not or could not clear air-time for them. Remember - this was before videotape had been invented, and, the pre-videotape system called 'Kinescope' was at best difficult to use and expensive to implement for stations on a tight budget. The DuMont network 'peaked' briefly in the fall of 1954 when Bishop Sheen was carried on a network of 117 stations (many newly on the air including many UHF); at the time, the 'largest TV network ever assembled' for a single TV program. DuMont was in a 'catch-22' scenario. Ultimately the frost-bite from the freeze would bury the network, the DuMont brand TV sets, and destroy the man himself.

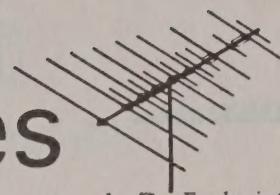
The FCC compromised with CBS; there was something called UHF out there and if CBS wanted to

develop color it could do so in the 480-496 MHz region taken from the lower end of the in-reserve 'UHF (TV) band.' It formally turned down a CBS petition for 16 MHz wide color in March 1947 but suggested to CBS that if they could narrow up the color bandwidth some more, the matter could be brought back to the FCC for a new hearing. At this point no channeling had been done at UHF, it being a sort of 'growth reserve' for future needs. If CBS was correct, and color did end up requiring more than 6 MHz per channel, well ... it would be at UHF. So the first serious use of UHF was by CBS which established a low power station (licensed as W2XCS) in the New York City region. By 1948 a small company called Aerco Sales in Brooklyn was even promoting a box they called a 'UHF Converter' for those curious to witness the CBS trials. If such a box was ever produced and sold in any quantity, this has escaped the author's notice and could properly lay claim to being the 'first home UHF TV receiving system' in history. CBS pushed the FCC very hard on adopting its 'field-sequential' color system and RCA went into a defensive mode by issuing general platitudinous statements concerning its laboratory curiosity; color based originally on three small (5") CRTs equipped with filters (red, blue and green) that projected through lens to a viewing screen. Shortly after CBS began experimenting with 16 (then 12) MHz wide color in 1946, RCA put its own experimental UHF station on the air as well to test a (14.5 MHz wide) color system. Neither of these stations could be considered serious attempts at UHF however, more laboratory bread board units than a real run at solving UHF's special problems. FCC records also show *The Milwaukee Journal*, licensee of WTMJ, was experimenting with UHF as well in 1947. If the station was functional, its operation created little written record and the likelihood is the WTMJ UHF station was another 'bread board' transmitter.

RCA, initially unprepared for CBS's run at color, worried little about the CBS ploy actually slowing down the development of television but it did recognize the obvious; if the FCC was going to place at least one TV transmitter within 50 miles of every American, it would need far more than 12 (VHF) channels to accomplish this. The original FCC plan only worked when stations on the same channel (such as 4) were located as close as 110 miles of one another. The debacle this caused, leading to the freeze in September 1948, could only be corrected by respacing stations further apart. And when this happened, you would need more channels than 12 to cover the nation. So RCA saw UHF as a growth reserve but not a private preserve for color. In 1948 RCA began serious planning for UHF. (-to be continued-)

(5) The 'Saga' of CBS color will await another telling. Suffice to note on September 01, 1950 the FCC chose the CBS field sequential (mechanical color wheel) system over competitors RCA and CTI. RCA took the FCC to court, the Supreme Court ruling on May 28, 1951 that CBS could proceed with 'commercial color' operation. The first CBS commercial telecast (over only WCBS-TV) was June 25, 1951; the last was October 19, 1951. In between those two dates some of the most deceitful intrigue ever practiced in the American consumer electronics world; a story for another time.

ANTENNAnotes



by Dr. Feedpoint

Last time around, we talked about that much-discussed antenna spec, gain. We showed that, in a "relative" sort of way, it gives you an idea of how much signal your antenna has the ability to acquire at the frequency or band of interest. Well, directivity is one heck of an important "spec" to the antenna user...and to a person who is using an antenna for the reception of weak signals, IT CAN ACTUALLY BE MORE IMPORTANT THAN GAIN. This is going to disturb some of you out there, because finding out about the actual directivity performance of an antenna model is often darned near impossible! And it's something you're going to want to know, when you compare antenna models in your quest for the one with the "sharpest pattern," or in the popular DX'ers vernacular, the "best nulls." The prevalent attitude among manufacturers of TV and FM antenna reception equipment isn't too receptive to telling "Joe Consumer" about antenna directivity.

An antenna with inherently poor directivity receives signals well even in directions other than the desired one. In fact, the simple half-wave reference dipole we discussed previously in *ANTENNAnotes* would have this problem, mainly because it has no directors to give it the property of gain. In general, greater gain is achieved by adding directive elements, or directors, to an antenna. Not to get too deeply into it here, because this is for a later installment on antenna types, but a well designed antenna with many directors and a well-utilized longer boom will always beat a smaller antenna of similar design in terms of directivity, and therefore will exhibit greater forward gain performance.

In fact, it really requires a "polar plot" laid out on an x-y axis to tell the story a given antenna's directivity to the user. A polar plot is actually a chart, or a graphical representation, of how an antenna's gain relates to the direction it faces. In the polar plot pattern in Fig. 1 below, the performance of an excellent channel 12 cut-to-channel yagi is shown. 360 degrees of a circle are displayed, with 0 degrees being the direction of maximum gain for the antenna. Directivity is expressed as the beam width, in degrees, at the half-power points. In a catalog or on a spec sheet, this is usually called "half-power beamwidth," HPBW, or simply "beamwidth."

The neat thing about this type of display is that when done properly, it's ultimately more useful than simple predicted or measured forward gain specifications. A well-displayed polar pattern will not only show you where the antenna's best signal nulls occur and how pronounced they are...it will also show you front-to-back ratio. Now...there's a spec that's generally over-rated by DX'ing buffs! F/B ratio is simply the gain of the forward direction of the antenna as it compares with the gain in the opposite, or rear. As with forward antenna gain, the true F/B ratio of an antenna varies quite a bit from the theoretical figures due to "real world" considerations such as height above ground, and reflection from nearby objects such as trees, powerlines, even bridges, building, and terrain!

Here's why DX'ing enthusiasts shouldn't get too "hyper" about F/B ratio. Numerous experimental studies have shown that although forward gain improvements to many types of TV/FM antenna designs (especially those based on the log-yagi) tend to be relatively small, trying to achieve the best F/B ratio is very elusive--for optimum F/B ratio actually tends to occur only at a very narrow bandwidth. The bottom line is this: if you really need to achieve better F/B ratio, you might as well increase the forward gain by going to a larger array (i.e., stacked/phased antennas).

It is, however, generally interesting to know the F/B ratio of any antenna you're considering. In the real world and with the best General Instrument and Channel Master broadband TV antennas, it's typically around 15-20 dB -- anything with over 25 db of true F/B ratio is not common in my installing experience, though putting aluminum window screen on the reflector of a UHF parabolic dish will give you the highest f/b ratio you'll ever probably work with in the real world. (No, I haven't tried it. Yes, I know there are people in the DX community who do this. Personally, I like my roof and I need it to keep the family warm and dry...so I try to avoid having a screen-modified dish attached to it. Ever watch one of those windsurfers? Then you know what I'm talking about here...).

So how is it that directivity could be construed as more important than the gain figure of an antenna? Well, a good demonstration would be to take a 4-bay UHF bowtie and replaced it with a corner reflector yagi of the same approximate forward gain rating. Although both antennas would offer about the same level of DX signals, you'd be amazed what you were missing in the co-channel interference when you went to the CR yagi! The UHF 4-bay's "barn-door" beamwidth would cause undesirable stronger signals to swamp the weaker DX--which may well only be viewable on the CR yagi, with the deeper nulls inherent to its design. On the plus side, you might be bothered by a bit less aircraft reflection flutter on the 4 bay. Big deal! What about that 600 mile tropospheric duct signal you'd probably miss seeing through that UHF station 80 miles away?

ANTENNA notes...

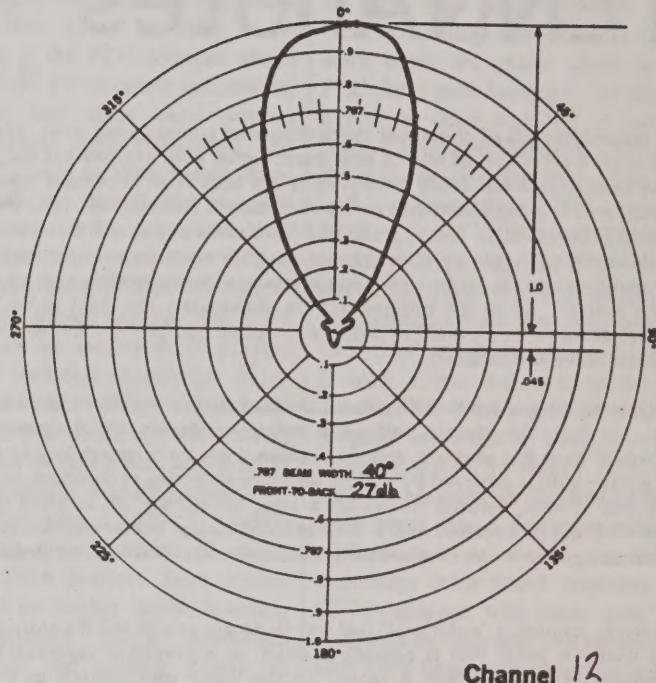


Fig.1 - POLAR PLOT FOR WINEGARD CH 12 CUT-CHANNEL YAGI

Gain and directivity are sometimes looked upon as two different aspects of the same thing by some electronics professionals. This is understandable, since a highly directive antenna tends to be that way exactly because of the use of multiple directors, each one of which contribute to gain, albeit with diminishing returns. Multiple directors enhance and sharpen the pattern. Just look at what they do in the case of the channel 12 yagi! A halfwave channel 12 dipole, by comparison, would show a "fat figure 8" plot.

So it is up to the DX enthusiast to realize that the antenna's pattern is extremely important to know in order make a wise choice in selecting antennas for DX purposes. I'm sometimes amazed at how densely populated the high band TV and FM broadcast channels are in my own part of the U.S. Midwest. It's rather ironic that the old VHF DX'ing limitation, lack of adequate antenna gain, is really not the problem anymore, especially if you use a topline Channel Master Crossfire, Quantum, General Instrument VIP-series, etc. Nowadays, the superior broadband gain figures of the top of these antenna lines are overshadowed by a pressing need for sharper and sharper lobes, with the resulting deeper nulls. FM DXing with a simple log periodic is probably pretty much out of the question anymore in congested urban areas. It's strange but true that even though FM broadcasting is the dominant radio broadcasting nowadays, there really are only two or three antenna designs (the Channel Master Stereo Probes, for instance) are worthy of consideration for effective weak signal work.

DX'ers would do well to pretty much rule out the simpler, cheaply made mass-market designs found at Radio Shack, Wal-Mart, and other large chains. These invariably tend to be simple log periodics with rather wide lobes, meager gain, and shallow nulls. So it's up to you to deal with your local MATV professional. Unless you want to go the direct route and contact manufacturers directly--in which case you had better make it clear to them that you are interested in their antennas for experimental reception purposes.

If you've been in the market for a high-end TV or FM antenna lately, you'll know that getting this kind of information is getting tougher, unless you happen to be in the MATV business. There's nothing to indicate that the kind of data you need to know about that new antenna you're planning to add to your DX system will be easier to come by in '94. With DBS on the way, manufacturers will surely be turning their attention to this new way to watch TV. Nonetheless, there continues to be a sizable market for good conventional VHF, UHF, and FM antennas.

Coming up in this series: "Rollin' Your Own Log", or "Hey Ma--Look At The Parabolic Dish I Made In Shop Class"

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for the 1995 WTFDA Convention

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BIDS MUST BE POSTMARKED NO LATER THAN NOVEMBER 30.

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In the event of a vote, ballots will have to be returned by January 15 in order to announce the final selection in the February VUD.

WHEN YOU MAKE A BID, PLEASE INCLUDE A BRIEF OUTLINE OF YOUR TENTATIVE PLANS...such as a description of the area you have in mind, availability of accommodations, possible tours or field trips, guest speakers, equipment available for dx-ing, and anything else that you consider pertinent.

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(Remember...bids must be postmarked November 30 or earlier.)

[As you've probably noticed, the bidding and selection process is about the same as it has been in the past. In 1995 this system will be reviewed with a goal in mind of 'fine-tuning' the entire convention procedure. Your ideas and comments will be solicited at a later date.]

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